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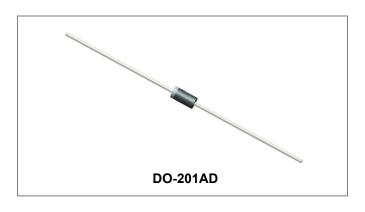


**1.5KE SERIES** 

Technical Data Data Sheet N0209, Rev. E



## 1.5KE SERIES TRANSIENT VOLTAGE SUPPRESSOR



## **Circuit Diagram**



#### Features

- Glass Passivated Die Construction
- 1500W Peak Pulse Power Dissipation
- 6.8V- 550V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- This is a Pb Free Device
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

## Mechanical Data

- Case: JEDEC DO-201AD Low Profile Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Weight: 1.10 grams(approx.)

## Maximum Ratings and Thermal Characteristics@T<sub>A</sub>=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation at T <sub>A</sub> =25°C (Fig.1)(Note 1, 2, 5)	Рррм	1500	W
Peak Forward Surge Current per Fig.6(Note 3)	I <sub>FSM</sub>	200	А
Peak Pulse Current on 10x1000µs Waveform(Fig.3)(Note 1)	IPPM	See Table 1	А
Steady State Power Dissipation(Note 2, 4)	P <sub>M(AV)</sub>	5.0	W
Typical Thermal Resistance Junction to Lead	$R_{ extsf{ heta}JL}$	15	°C/W
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	75	°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to 175	°C

Notes: 1. Non-repetitive current pulse, per Fig. 3 and derated above  $T_A = 25^{\circ}C$  per Fig. 2.

- 2. Mounted on 20mm<sup>2</sup> copper pad.
- 3. 8.3ms single half sine wave duty cycle=4 pulses per minute maximum.
- 4. Lead temperature at  $75^{\circ}C=T_{L}$
- 5. Peak pulse power waveform is  $10x1000\mu s$ 
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## **1.5KE SERIES**

Technical Data Data Sheet N0209, Rev. E



UNI-POLAR         REVERSE BI-POLAR         BREARCOWN VOLTAGE Var, (V)         TST         CURRENT Var, (V)         MAXILUM Var, (V)         PEAK War, (V)	Electrical	Electrical Characteristics @T <sub>A</sub> =25°C unless otherwise specified							
1         1         5KEP SA         1         15KEP SA         1         15KEP SA         1         15KEP SA         1         13KEP SA         1         13KEP SA         1         13KEP SA         1         13KEP SA         1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>	UNI-POLAR	BI-POLAR	STANDOFF VOLTAGE	VOLTAGE V <sub>BR</sub> (V)	VOLTAGE V <sub>BR</sub> (V)	CURRENT (I <sub>T</sub> )	CLAMPING VOLTAGE @I <sub>PP</sub>	PULSE CURRENT	LEAKAGE @V <sub>RWM</sub>
15KE2A         15KE2A         15KE2A         15KE3CA         778         8.61         10         12.1         125.6         200           15KE1A         15KE1CA         778         8.65         9.50         10.50         1         14.5         104.8         10           15KE1A         15KE1CA         9.40         10.50         11.60         1         15.6         97.4         5           15KE1A         15KE1CA         10.20         11.40         12.60         1         16.7         91.0         5           15KE1A         15KE1CA         12.6         13.60         15.20         16.80         1         22.5         67.6         5           15KE1A         15KE1CA         13.60         15.20         16.80         1         22.5         67.6         5           15KE2A         15KE2CA         15.80         20.90         23.10         1         30.6         49.7         5           15KE2A         15KE2CA         15KE2CA         15KE2A         15KE3A         15         15	1.5KE6.8A	1.5KE6.8CA	5.80	6.45	7.14	10	10.5	144.8	1000
15KEB2A         15KEB2A         15KEB2A         15KEB1A         15KEB1A <t< td=""><td></td><td>1.5KE7.5CA</td><td>6.40</td><td>7.13</td><td>7.88</td><td>10</td><td>11.3</td><td>134.5</td><td>500</td></t<>		1.5KE7.5CA	6.40	7.13	7.88	10	11.3	134.5	500
ISKE10A         ISKE10CA         8.55         9.50         10.50         1         14.5         104.8         10           ISKE11A         I.5KE11CA         9.40         10.50         11.60         1         15.6         97.4         5           ISKE13A         I.5KE13CA         11.20         11.40         12.600         1         16.7         91.0         5           I.SKE15A         I.5KE16A         12.80         14.30         15.80         1         22.5         67.6         5           I.SKE16A         I.5KE16CA         13.80         15.20         16.80         1         22.5         60.3         5           I.SKE2AA         I.5KE2CA         17.10         18.00         21.00         1         30.6         49.7         5           I.SKE2AA         I.5KE2CA         23.10         1         30.6         49.7         5           I.SKE3AA         I.5KE3CA         22.80         23.10         1         41.4         36.7         5           I.SKE3AA         I.5KE3CA         28.0         31.50         1         41.4         36.7         5           I.SKE3AA         I.5KE3AA         38.80         34.20         37.80         <	1.5KE8.2A	1.5KE8.2CA	7.02		8.61	10	12.1	125.6	200
1.5Ke11A         1.5Ke12CA         10.50         11.60         1         15.6         97.4         5           1.5Ke12A         1.5Ke13CA         11.00         11.40         12.60         1         16.7         91.0         5           1.5Ke13A         1.5Ke13CA         11.10         12.40         13.70         1         18.2         83.5         5           1.5Ke16A         1.5Ke16A         13.60         15.20         16.80         1         22.5         60.3         5           1.5Ke16A         1.5Ke16A         13.60         15.20         10.80         1         22.5         60.3         5           1.5Ke2A         1.5Ke2A         1.5Ke2A         1.5Ke2A         1.5Ke2A         1.5Ke2A         1.5Ke3A         45.8         5           1.5Ke2A         1.5Ke2A         25.60         22.80         25.20         1         33.2         45.8         5           1.5Ke3A         1.5Ke3AA         1.5Ke3AA         1.5Ke3AA         1.5Ke3AA         1.5Ke3A         1.5Ke3A <td< td=""><td>1.5KE9.1A</td><td>1.5KE9.1CA</td><td>7.78</td><td>8.65</td><td>9.50</td><td>10</td><td>13.4</td><td>113.4</td><td>50</td></td<>	1.5KE9.1A	1.5KE9.1CA	7.78	8.65	9.50	10	13.4	113.4	50
1.5KE12A         1.5KE12CA         10.20         11.40         12.60         1         16.7         91.0         5           1.5KE13A         1.5KE13CA         11.10         12.40         13.70         1         18.2         83.5         5           1.5KE15CA         12.80         14.30         15.80         1         21.2         71.7         5           1.5KE12A         15.30         17.10         18.90         1         22.5         67.6         5           1.5KE2A         1.5KE2CA         15.80         17.10         18.90         1         27.7         54.9         5           1.5KE2A         1.5KE2CA         20.50         22.80         25.20         1         33.2         45.8         5           1.5KE3CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE3GA         1.5KE3GA         28.20         31.40         34.70         1         44.57         33.3         5           1.5KE3GA         1.5KE3GA         38.80         37.10         41.00         1         53.9         25.6         5           1.5KE43A         1.5KE43CA         46.80         53.60         1<	1.5KE10A	1.5KE10CA	8.55		10.50	1	14.5	104.8	10
1.5KE13A         1.5KE13CA         11.10         12.40         13.70         1         18.2         83.5         5           1.5KE16A         1.5KE16CA         12.80         14.30         15.80         1         22.12         77.7         5           1.5KE16CA         13.80         15.20         16.80         1         22.5         67.6         5           1.5KE20A         1.5KE0CA         17.10         18.90         1         22.52         60.3         5           1.5KE22A         1.5KE2CA         18.80         20.90         23.10         1         30.6         49.7         5           1.5KE2A         1.5KE2CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE3GA         1.5KE3GCA         28.20         31.40         34.70         1         44.77         33.3         5           1.5KE3GA         1.5KE3GCA         30.80         34.20         37.80         1         49.9         30.5         5           1.5KE3GCA         36.80         40.90         1         64.8         23.5         5           1.5KE4A         1.5KE4A         43.60         44.70         49.40	1.5KE11A	1.5KE11CA	9.40	10.50	11.60	1	15.6	97.4	5
1.5KE15A         1.5KE16CA         12.80         14.30         15.80         1         21.2         71.7         5           1.5KE16A         1.5KE16CA         13.60         15.20         16.80         1         22.5         67.6         5           1.5KE18CA         15.30         17.10         18.90         1         25.2         60.3         5           1.5KE2A         1.5KE2QCA         17.10         19.00         21.00         1         37.7         54.9         5           1.5KE2A         1.5KE2ACA         20.50         22.80         25.20         1         33.2         45.8         5           1.5KE3A         1.5KE3GCA         28.20         31.40         34.70         1         44.57         33.3         5           1.5KE3GCA         38.80         34.20         37.80         1         49.9         30.5         5           1.5KE43A         1.5KE43CA         36.80         49.90         1         64.8         23.5         5           1.5KE47A         1.5KE43CA         36.80         46.50         53.60         1         70.1         21.7         5           1.5KE54A         1.5KE54CA         47.80         48.50	1.5KE12A	1.5KE12CA	10.20	11.40	12.60	1	16.7	91.0	5
1.SKE18A         1.SKE16A         13.80         15.20         16.80         1         22.5         67.6         5           1.SKE18A         1.SKE20CA         17.10         18.90         1         25.2         60.3         5           1.SKE20A         1.SKE20CA         17.10         19.00         21.00         1         27.7         54.9         5           1.SKE2A         1.SKE2ACA         20.50         22.80         25.20         1         33.2         45.8         5           1.SKE2A         1.SKE3ACA         25.60         25.70         28.40         1         37.5         40.5         5           1.SKE3A         1.SKE3ACA         28.60         28.50         31.50         1         41.4         36.7         5           1.SKE3AA         1.SKE3GCA         30.80         34.20         37.80         1         49.9         30.5         5           1.SKE3AA         1.SKE4GCA         30.80         40.90         45.20         1         59.3         25.6         5           1.SKE4TA         1.SKE4GCA         40.80         48.50         53.60         1         70.1         21.7         5           1.SKE56A         1.SKE56CA	1.5KE13A	1.5KE13CA	11.10	12.40	13.70	1	18.2	83.5	
1.SKE18A         1.SKE16A         13.80         15.20         16.80         1         22.5         67.6         5           1.SKE18A         1.SKE20CA         17.10         18.90         1         25.2         60.3         5           1.SKE20A         1.SKE20CA         17.10         19.00         21.00         1         27.7         54.9         5           1.SKE2A         1.SKE2ACA         20.50         22.80         25.20         1         33.2         45.8         5           1.SKE2A         1.SKE3ACA         25.60         25.70         28.40         1         37.5         40.5         5           1.SKE3A         1.SKE3ACA         28.60         28.50         31.50         1         41.4         36.7         5           1.SKE3AA         1.SKE3GCA         30.80         34.20         37.80         1         49.9         30.5         5           1.SKE3AA         1.SKE4GCA         30.80         40.90         45.20         1         59.3         25.6         5           1.SKE4TA         1.SKE4GCA         40.80         48.50         53.60         1         70.1         21.7         5           1.SKE56A         1.SKE56CA	1.5KE15A	1.5KE15CA	12.80	14.30	15.80	1		71.7	5
1.5KE18A         1.5KE18CA         15.30         17.10         18.90         1         25.2         60.3         5           1.5KE20A         1.5KE20CA         17.10         19.00         21.00         1         27.7         54.9         5           1.5KE22A         1.5KE24CA         20.50         22.80         25.20         1         33.2         45.8         5           1.5KE27A         1.5KE27CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE30A         1.5KE30CA         22.60         28.50         31.50         1         41.4         36.7         5           1.5KE33A         1.5KE33CA         38.0         34.20         37.80         1         49.9         30.5         5           1.5KE33A         1.5KE37CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE56A         1.5KE51CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE56A	1.5KE16A	1.5KE16CA	13.60	15.20	16.80	1	22.5	67.6	
1.5KE20A         1.5KE20A         17.10         19.00         21.00         1         27.7         54.9         5           1.5KE22A         1.5KE22CA         18.80         20.90         23.10         1         30.6         49.7         5           1.5KE27A         1.5KE27CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE30A         1.5KE30CA         25.00         28.50         31.50         1         44.4         36.7         5           1.5KE30A         1.5KE33CA         28.20         31.40         34.70         1         45.7         33.3         5           1.5KE33A         1.5KE33CA         38.80         34.20         37.80         1         49.9         30.5         5           1.5KE30A         1.5KE43CA         38.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE51A         1.5KE51CA         43.60         48.50         53.60         1         77.0         19.7         5           1.5KE62A	1.5KE18A		15.30	17.10	18.90	1	25.2	60.3	
1.5KE22A         1.5KE22A         1.5KE2A         1.8K24CA         20.50         22.80         25.20         1         33.2         45.8         5           1.5KE2AA         1.5KE2ACA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE2AA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE3AA         1.5KE3GA         28.20         31.40         34.70         1         45.7         33.3         5           1.5KE3AA         1.5KE3GA         30.80         34.20         37.80         1         49.9         30.5         5           1.5KE4AA         1.5KE4AA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE4AA         1.5KE4AA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE62A         1.5KE62A         47.80         53.20         58.80         1         77.0         19.7         5           1.5KE62A         1.5KE62A         50.10         66.10         1         85.0         1.5KE36A         41.0         7.9         5 </td <td>1.5KE20A</td> <td>1.5KE20CA</td> <td>17.10</td> <td>19.00</td> <td>21.00</td> <td>1</td> <td></td> <td>54.9</td> <td></td>	1.5KE20A	1.5KE20CA	17.10	19.00	21.00	1		54.9	
1.5KE24A         1.5KE24CA         20.50         22.80         25.20         1         33.2         45.8         5           1.5KE27A         1.5KE30CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE30A         1.5KE30CA         25.60         28.50         31.50         1         41.4         36.7         5           1.5KE30A         1.5KE30CA         28.20         31.40         34.70         1         45.7         33.3         5           1.5KE30A         1.5KE30CA         33.0         37.10         41.00         1         53.9         28.2         5           1.5KE43A         1.5KE43CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47A         1.5KE47A         4.560         63.60         1         70.1         21.7         5           1.5KE56A         1.5KE56CA         47.80         53.20         58.80         1         77.0         19.7         5           1.5KE67A         1.5KE67CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE17A	the state of the second st		18.80	20.90		1	30.6	49.7	5
1.5KE27A         1.5KE27CA         23.10         25.70         28.40         1         37.5         40.5         5           1.5KE30A         1.5KE33CA         28.20         31.40         34.70         1         41.4         36.7         5           1.5KE33A         1.5KE33CA         28.20         31.40         34.70         1         44.9.9         30.5         5           1.5KE33A         1.5KE33CA         38.0         34.20         37.80         1         49.9         30.5         5           1.5KE47A         1.5KE47CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE51A         1.5KE51CA         43.60         48.50         53.60         1         77.0         19.7         5           1.5KE62A         1.5KE51CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         113.0         11.4         5           1.5KE75A		Construction of the second second second second				1		45.8	
LSKE30A         LSKE30CA         25.60         28.50         31.50         1         41.4         36.7         5           LSKE33A         LSKE33CA         28.20         31.40         34.70         1         45.7         33.3         5           LSKE36CA         30.80         33.30         37.10         41.00         1         53.9         28.2         5           LSKE43A         LSKE43CA         36.80         40.90         45.20         1         59.3         25.6         5           LSKE47A         LSKE47CA         40.20         44.70         49.40         1         64.8         23.5         5           LSKE47A         LSKE47CA         40.20         44.70         49.40         1         64.8         23.5         5           LSKE51A         LSKE5CA         43.60         48.50         53.60         1         70.1         21.7         5           LSKE52A         LSKE5CA         53.00         58.90         65.10         1         85.0         17.9         5           LSKE56A         1.5KE56CA         64.10         71.30         78.80         1         103.0         14.8         5           LSKE100A         1.5KE100CA	1.5KE27A	1.5KE27CA	23.10	25.70		1		40.5	
1.5KE36A         1.5KE30A         30.80         34.20         37.80         1         49.9         30.5         5           1.5KE39A         1.5KE30A         33.30         37.10         41.00         1         53.9         28.2         5           1.5KE43A         1.5KE47CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE5A         1.5KE5CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE62A         1.5KE62CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE51A         1.5KE61CA         77.80         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE	1.5KE30A	1.5KE30CA	25.60	28.50	31.50	1	41.4	36.7	
1.5KE36A         1.5KE30A         30.80         34.20         37.80         1         49.9         30.5         5           1.5KE39A         1.5KE30A         33.30         37.10         41.00         1         53.9         28.2         5           1.5KE43A         1.5KE47CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE5A         1.5KE5CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE62A         1.5KE62CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE51A         1.5KE61CA         77.80         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE10A         1.5KE	1.5KE33A	1.5KE33CA	28.20	31.40	34.70	1	45.7	33.3	5
1.5KE39A         1.5KE39CA         33.30         37.10         41.00         1         53.9         28.2         5           1.5KE43A         1.5KE43CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE51A         1.5KE51CA         43.60         48.50         53.60         1         77.0         19.7         5           1.5KE56A         1.5KE68CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE10A         1.5KE10CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE10A <td>1.5KE36A</td> <td>1.5KE36CA</td> <td>30.80</td> <td>34.20</td> <td>37.80</td> <td>1</td> <td>49.9</td> <td></td> <td></td>	1.5KE36A	1.5KE36CA	30.80	34.20	37.80	1	49.9		
1.5KE43A         1.5KE43CA         36.80         40.90         45.20         1         59.3         25.6         5           1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE51A         1.5KE56CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE56A         1.5KE56CA         47.80         53.20         58.80         1         77.0         19.7         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE82CA         70.10         77.80         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE91CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE120A         1.5KE120CA         102.00         114.00         126.00         1         165.0         9.2         5           1.5KE15	1.5KE39A	1.5KE39CA	33.30	37.10	41.00	1	53.9		5
1.5KE47A         1.5KE47CA         40.20         44.70         49.40         1         64.8         23.5         5           1.5KE51A         1.5KE51CA         43.80         48.50         53.80         1         70.1         21.7         5           1.5KE56A         1.5KE62CA         47.80         53.20         58.80         1         77.0         19.7         5           1.5KE62A         1.5KE62CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE62A         1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE10A         1.5KE10CA         49.00         105.00         1         137.0         11.1         5           1.5KE10A         1.5KE13CA         111.00         124.00         137.00         1         179.0         8.5         5           1.5KE						1			
1.5KE51A         1.5KE51CA         43.60         48.50         53.60         1         70.1         21.7         5           1.5KE56A         1.5KE63CA         47.80         53.20         58.80         1         77.0         19.7         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE68A         1.5KE68CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE84A         1.5KE82CA         70.10         77.90         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE10CA         85.50         95.00         105.00         1         125.0         12.2         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE10A         1.5KE10CA         102.00         114.00         126.00         1         165.0         9.2         5           1.5KE130A         1.5KE130CA         128.00         143.00         158.00         1         210.0         7.3         5           1.			40.20	44.70		1	64.8	23.5	
1.5KE62A         1.5KE62CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE81A         1.5KE82CA         70.10         77.90         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE81CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE120A         1.5KE130CA         122.0         10.0         5         5         5           1.5KE130A         1.5KE130CA         111.00         124.00         137.00         1         179.0         8.5         5           1.5KE130A         1.5KE130CA         128.00         143.00         158.00         1         207.0         7.3         5           1.5KE160A         154.00         <			43.60	48.50	53.60	1	70.1		
1.5KE62A         1.5KE62CA         53.00         58.90         65.10         1         85.0         17.9         5           1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE81A         1.5KE82CA         70.10         77.90         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE81CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE10A         1.5KE10CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE120A         1.5KE130CA         122.0         10.0         5         5         5           1.5KE130A         1.5KE130CA         111.00         124.00         137.00         1         179.0         8.5         5           1.5KE130A         1.5KE130CA         128.00         143.00         158.00         1         207.0         7.3         5           1.5KE160A         154.00         <	1.5KE56A	1.5KE56CA	47.80	53.20	58.80	1	77.0	19.7	5
1.5KE68A         1.5KE68CA         58.10         64.60         71.40         1         92.0         16.5         5           1.5KE75A         1.5KE75CA         64.10         71.30         78.80         1         103.0         14.8         5           1.5KE82A         1.5KE82CA         70.10         77.90         86.10         1         113.0         13.5         5           1.5KE10A         1.5KE10CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE110A         1.5KE110CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE110A         1.5KE110CA         94.00         105.00         1         165.0         9.2         5           1.5KE130A         1.5KE130CA         102.00         114.00         126.00         1         179.0         8.5         5           1.5KE150CA         128.00         143.00         158.00         1         207.0         7.3         5           1.5KE160A         1.5KE160CA         136.00         152.00         168.00         1         219.0         6.5         5           1.5KE170CA         145.00		1.5KE62CA	53.00		65.10	1	24.52 (SS22)	17.9	2222
1.5KE82A         1.5KE82A         70.10         77.90         86.10         1         113.0         13.5         5           1.5KE91A         1.5KE91CA         77.80         86.50         95.50         1         125.0         12.2         5           1.5KE100A         1.5KE100CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE10A         1.5KE10CA         94.00         105.00         116.00         1         152.0         10.0         5           1.5KE120A         1.5KE120CA         102.00         114.00         126.00         1         165.0         9.2         5           1.5KE130A         1.5KE130CA         112.00         143.00         158.00         1         207.0         7.3         5           1.5KE150A         1.5KE160CA         136.00         152.00         168.00         1         219.0         6.9         5           1.5KE180A         1.5KE180CA         154.00         171.00         189.00         1         246.0         6.2         5           1.5KE200A         154.00         171.00         189.00         1         328.0         4.6         5           1.5KE200CA<						1	92.0		
1.5KE82A1.5KE82CA70.1077.9086.101113.013.551.5KE91A1.5KE91CA77.8086.5095.501125.012.251.5KE100A1.5KE100CA85.5095.00105.001137.011.151.5KE110A1.5KE110CA94.00105.00116.001152.010.051.5KE120A1.5KE120CA102.00114.00126.001165.09.251.5KE130A1.5KE130CA111.00124.00137.001179.08.551.5KE150A1.5KE150CA128.00143.00158.001207.07.351.5KE160A1.5KE160CA136.00152.00168.001219.06.951.5KE180A1.5KE180CA154.00171.00189.001234.06.551.5KE200A1.5KE200CA171.00190.00231.001328.04.651.5KE20A1.5KE220CA185.00209.00231.001328.04.651.5KE30A1.5KE30CA256.00285.00315.001448.03.251.5KE30A1.5KE400CA342.00380.00420.001698.02.351.5KE30A1.5KE400CA342.00380.00420.001688.02.351.5KE400A1.5KE400CA342.00380.00420.001688.02.35 </td <td>1.5KE75A</td> <td>1.5KE75CA</td> <td>64.10</td> <td>71.30</td> <td>78.80</td> <td>1</td> <td>103.0</td> <td>14.8</td> <td>5</td>	1.5KE75A	1.5KE75CA	64.10	71.30	78.80	1	103.0	14.8	5
1.5KE91A1.5KE91CA77.8086.5095.501125.012.251.5KE100A1.5KE100CA85.5095.00105.001137.011.151.5KE110A1.5KE110CA94.00105.00116.001152.010.051.5KE120A1.5KE120CA102.00114.00126.001165.09.251.5KE130A1.5KE130CA111.00124.00137.001179.08.551.5KE150A1.5KE160CA128.00143.00158.001207.07.351.5KE160A1.5KE170CA145.00162.00179.001234.06.551.5KE170A1.5KE170CA145.00162.00179.001234.06.551.5KE180A1.5KE180CA154.00171.00189.001246.06.251.5KE20A1.5KE20CA171.00190.00210.001328.04.651.5KE20A1.5KE20CA214.00237.00263.001344.04.451.5KE30A1.5KE30CA300.00332.00368.001482.03.251.5KE400A1.5KE400CA342.00380.00420.001602.02.551.5KE40A1.5KE40CA376.00418.00462.001602.02.551.5KE40A1.5KE40CA434.00456.00535.001628.02.35 <td></td> <td>and a state of the state of the</td> <td>11-12-12-12-12-12</td> <td></td> <td></td> <td>1.5</td> <td></td> <td>- 10 YO M. 10 YO</td> <td>********</td>		and a state of the	11-12-12-12-12-12			1.5		- 10 YO M. 10 YO	********
1.5KE100A         1.5KE100CA         85.50         95.00         105.00         1         137.0         11.1         5           1.5KE110A         1.5KE110CA         94.00         105.00         116.00         1         152.0         10.0         5           1.5KE120A         1.5KE120CA         102.00         114.00         126.00         1         165.0         9.2         5           1.5KE130A         1.5KE130CA         111.00         124.00         137.00         1         179.0         8.5         5           1.5KE150A         1.5KE150CA         128.00         143.00         158.00         1         207.0         7.3         5           1.5KE160A         1.5KE160CA         136.00         152.00         168.00         1         219.0         6.9         5           1.5KE180A         1.5KE180CA         145.00         162.00         179.00         1         234.0         6.5         5           1.5KE180A         1.5KE20CA         171.00         190.00         210.00         1         274.0         5.5         5           1.5KE20A         1.5KE20CA         185.00         209.00         231.00         1         344.0         4.4         5 </td <td></td> <td></td> <td>Delta See El De Cocos</td> <td></td> <td>107 - 10 March 1 07 90 WS</td> <td>1</td> <td></td> <td></td> <td></td>			Delta See El De Cocos		107 - 10 March 1 07 90 WS	1			
1.5KE110A1.5KE110CA94.00105.00116.001152.010.051.5KE120A1.5KE120CA102.00114.00126.001165.09.251.5KE130A1.5KE130CA111.00124.00137.001179.08.551.5KE150A1.5KE150CA128.00143.00158.001207.07.351.5KE160A1.5KE160CA136.00152.00168.001219.06.951.5KE170A1.5KE170CA145.00162.00179.001234.06.551.5KE180A1.5KE180CA154.00171.00189.001246.06.251.5KE200A1.5KE200CA171.00190.00210.001274.05.551.5KE20A1.5KE200CA171.00237.00263.001344.04.451.5KE20A1.5KE30CA226.00285.00315.001414.03.751.5KE30A1.5KE30CA300.00332.00368.001482.03.251.5KE400A1.5KE440CA376.00418.00462.001602.02.551.5KE40A1.5KE510CA434.00485.00535.001698.02.151.5KE540A1.5KE540CA450.00503.50556.501725.02.151.5KE540A1.5KE540CA450.00503.50556.501725.02.1			D14.2355648333	0.0000000000000000000000000000000000000					2007 V
1.5KE120A1.5KE120CA102.00114.00126.001165.09.251.5KE130A1.5KE130CA111.00124.00137.001179.08.551.5KE150A1.5KE150CA128.00143.00158.001207.07.351.5KE160A1.5KE160CA136.00152.00168.001219.06.951.5KE170A1.5KE170CA145.00162.00179.001234.06.551.5KE180A1.5KE180CA154.00171.00189.001246.06.251.5KE20A1.5KE20CA171.00190.00210.001274.05.551.5KE20A1.5KE20CA185.00209.00231.001328.04.651.5KE20A1.5KE250CA214.00237.00263.001414.03.751.5KE30A1.5KE350CA256.00285.00315.001448.02.851.5KE400A1.5KE360CA300.00332.00368.001482.03.251.5KE400A1.5KE400CA342.00380.00420.001648.02.851.5KE40A1.5KE400CA376.00418.00462.001602.02.551.5KE40A1.5KE50CA408.00456.00504.001698.02.151.5KE510A1.5KE510CA434.00485.00535.001725.02.15 </td <td>22-32 3 MAY CS 35 48390 254 U.S. 9</td> <td>CONTRACTOR CONTRACTOR STREET</td> <td>1.1.2.2.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2</td> <td></td> <td></td> <td>100</td> <td></td> <td>2000 to 200</td> <td>1272.8</td>	22-32 3 MAY CS 35 48390 254 U.S. 9	CONTRACTOR CONTRACTOR STREET	1.1.2.2.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2			100		2000 to 200	1272.8
1.5KE130A1.5KE130CA111.00124.00137.001179.08.551.5KE150A1.5KE150CA128.00143.00158.001207.07.351.5KE160A1.5KE160CA136.00152.00168.001219.06.951.5KE170A1.5KE170CA145.00162.00179.001234.06.551.5KE180A1.5KE180CA154.00171.00189.001246.06.251.5KE200A1.5KE20CA171.00190.00210.001274.05.551.5KE200A1.5KE20CA185.00209.00231.001328.04.651.5KE20A1.5KE20CA214.00237.00263.001344.04.451.5KE30A1.5KE30CA256.00285.00315.001414.03.751.5KE400A1.5KE30CA300.00332.00368.001482.03.251.5KE400A1.5KE400CA342.00380.00420.001602.02.551.5KE400A1.5KE400CA376.00418.00462.001602.02.551.5KE400A1.5KE510A434.00485.00535.001698.02.151.5KE510A1.5KE510CA434.00485.00535.001698.02.151.5KE530A1.5KE530CA450.00503.50556.501725.02.15<		방법 및 가격한 것은 것 같은 것을 수 있는 것을 것 같다.			요즘 아파 안 이 같아요. 아파 아파	12			
1.5KE150A1.5KE150CA128.00143.00158.001207.07.351.5KE160A1.5KE160CA136.00152.00168.001219.06.951.5KE170A1.5KE170CA145.00162.00179.001234.06.551.5KE180A1.5KE180CA154.00171.00189.001246.06.251.5KE200A1.5KE20CA171.00190.00210.001274.05.551.5KE20A1.5KE20CA185.00209.00231.001328.04.651.5KE20A1.5KE250CA214.00237.00263.001344.04.451.5KE300A1.5KE300CA256.00285.00315.001414.03.751.5KE30A1.5KE350CA300.00332.00368.001482.03.251.5KE400A1.5KE400CA342.00380.00420.001602.02.551.5KE400A1.5KE440CA376.00418.00462.001602.02.551.5KE480A1.5KE510CA434.00485.00535.001698.02.151.5KE510A1.5KE530CA450.00503.50556.501725.02.151.5KE540A1.5KE540CA459.00503.50556.501725.02.151.5KE540A1.5KE540CA459.00503.50556.501725.02.1 <td< td=""><td></td><td></td><td></td><td></td><td>1210-1217-1210-1210-1210-1210-1210-1210-</td><td></td><td></td><td>2003200919</td><td>0.6554</td></td<>					1210-1217-1210-1210-1210-1210-1210-1210-			2003200919	0.6554
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For bidirectional type having Vrwm of 10 volts and less, the IR limit is double. For parts without A , the VBR is  $\pm 10\%$ 

- China Cormany Koroa Singapora

China - Germany - Korea - Singapore - United States 
 Market August and August August

http://www.smc-diodes.com - sales@ smc-diodes.com

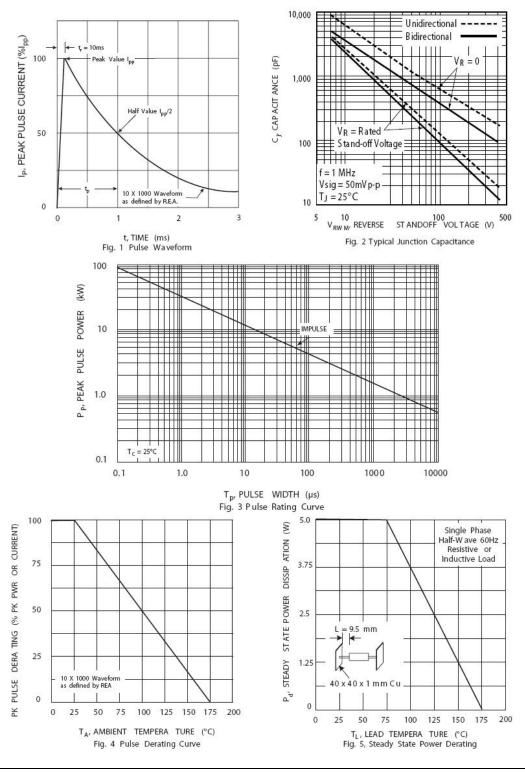


## **1.5KE SERIES**

#### Technical Data Data Sheet N0209, Rev. E



## **Ratings and Characteristics Curves**



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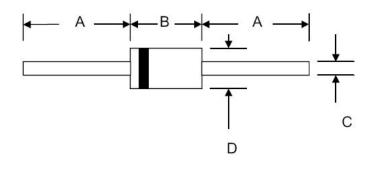


#### Technical Data Data Sheet N0209, Rev. E





## **Mechanical Dimensions DO-201AD**



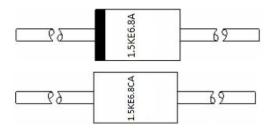
SYMBOL	Millin	neters	Inches		
OTMOOL	Min. Max.		Min. Max.		
A	24.0	-	0.945	-	
В	7.20	9.50	0.265	0.374	
С	0.96	1.07	0.038	0.042	
D	4.80	5.30	0.190	0.210	

## **Ordering Information**

Device	Package	Shipping	
1.5KE SERIES	DO-201AD	1250pcs / tape	
	(Pb-Free)	1250pcs / lape	

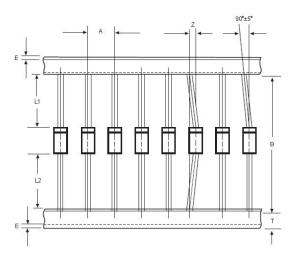
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

## **Marking Diagram**



1.5KE6.8A/1.5KE6.8CA = Part Name Note: Starting from the 16XXX will not mark date code.

## **Carrier Tape Specification DO-201AD**



SYMBOL	Millimeters			
STMBOL	Min.	Max.		
А	9.50	10.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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#### Technical Data Data Sheet N0209, Rev. E





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