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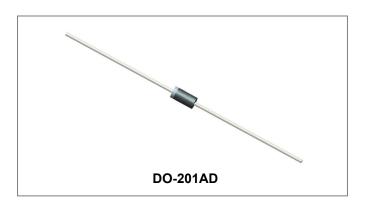


1.5KE SERIES

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_A=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation at T _A =25°C (Fig.1)(Note 1, 2, 5)	Рррм	1500	W
Peak Forward Surge Current per Fig.6(Note 3)	I _{FSM}	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 _{M(AV)}	5.0	W
Typical Thermal Resistance Junction to Lead	$R_{ extsf{ heta}JL}$	15	°C/W
Typical Thermal Resistance Junction to Ambient	R _{θJA}	75	°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-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 20mm² 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 $10x1000\mu s$
 - China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com -



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 _A =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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>	UNI-POLAR	BI-POLAR	STANDOFF VOLTAGE	VOLTAGE V _{BR} (V)	VOLTAGE V _{BR} (V)	CURRENT (I _T)	CLAMPING VOLTAGE @I _{PP}	PULSE CURRENT	LEAKAGE @V _{RWM}
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	
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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	
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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		
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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

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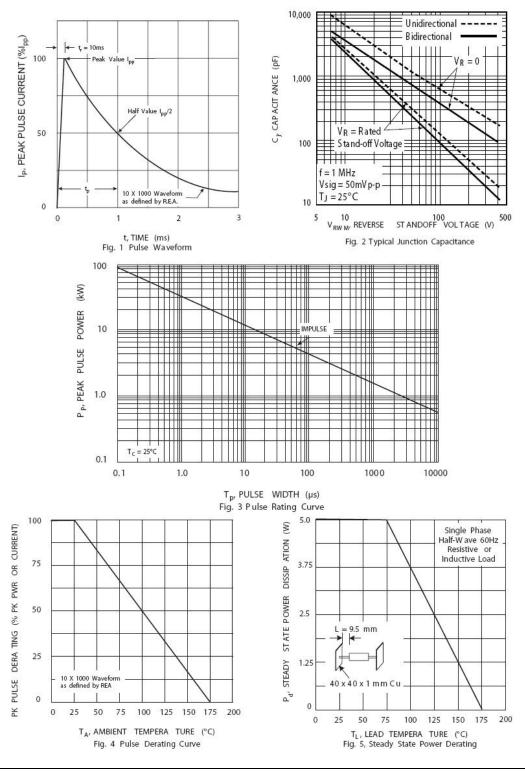


1.5KE SERIES

Technical Data Data Sheet N0209, Rev. E



Ratings and Characteristics Curves



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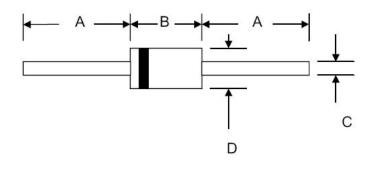


Technical Data Data Sheet N0209, Rev. E





Mechanical Dimensions DO-201AD



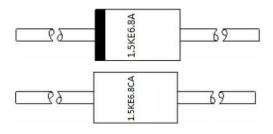
SYMBOL	Millin	neters	Inches		
OTMOOL	Min. Max.		Min. Max.		
A	24.0	-	0.945	-	
В	7.20	9.50	0.265	0.374	
С	0.96	1.07	0.038	0.042	
D	4.80	5.30	0.190	0.210	

Ordering Information

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

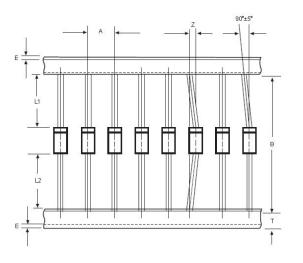
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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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