imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DZL6V8AXV3

DUAL SURFACE MOUNT ZENER DIODE

Features

- Ultra-Small Surface Mount Package
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device (Note 4)

ESD Sensitivity Rating

• IEC61000-4-2, HBM - 16kV, MM - 400V

Mechanical Data

- Case: SOT-523
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagram

Device Schematic

- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 0.002 grams (approximate)



Top View

Maximum Ratings $@T_A = 25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	Value	Unit	
Forward Voltage	@ I _F = 10mA	VF	0.9	V	

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation	PD	220	mW
Thermal Resistance, Junction to Ambient Air	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	۵°

Electrical Characteristics $@T_A = 25^{\circ}C$ unless otherwise specified

Type Number	Marking Code	Zener Voltage Range (Note 1)		Maximum Zener Impedance (Note 2)			Maximum Reverse Current (Note 1)		Temperature Coefficient of Zener Voltage @ I _{ZT} = 5mA			
		V _{Z @} I _{ZT}		Z _{ZT} @ I _{ZT} Z _{ZK} @ I _{ZK}		I _R @ V _R		TC (mV/°C)				
		Nom (V)	Min (V)	Max (V)	Ω	mA	Ω	mA	μΑ	V	Min	Max
DZL6V8AXV3	K96	6.8	6.46	7.14	15	5.0	100	1.0	1.0	4.5	1.2	4.5

Notes: 1. Short duration pulse test used to minimize self-heating.

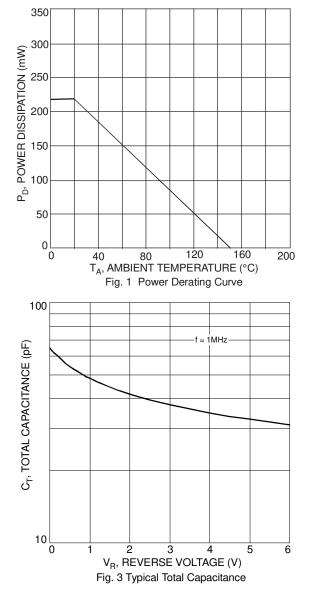
2. f = 1KHz.

3. No purposefully added lead.

4. Diodes Inc.'s "Green" Policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.



DZL6V8AXV3



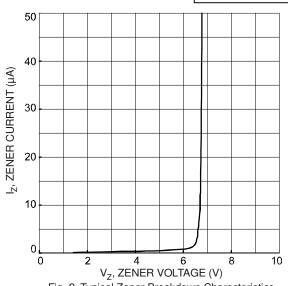


Fig. 2 Typical Zener Breakdown Characteristics

Ordering Information (Note 5)

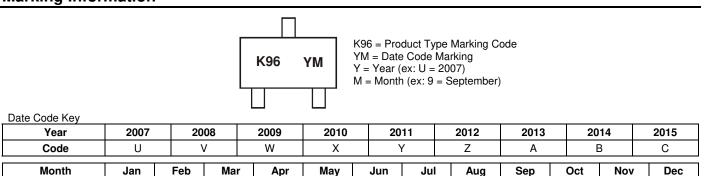
Part Number	Case	Packaging
DZL6V8AXV3-7	SOT-523	3000/Tape & Reel

Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

2

1

Marking Information



Code

6

8

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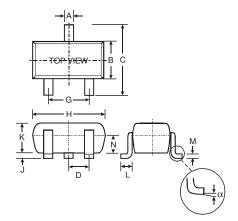
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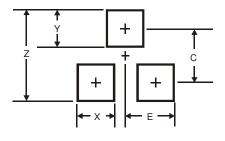


Package Outline Dimensions



SOT-523					
Dim	Min	Max	Тур		
Α	0.15	0.30	0.22		
В	0.75	0.85	0.80		
С	1.45	1.75	1.60		
D	_	_	0.50		
G	0.90	1.10	1.00		
н	1.50	1.70	1.60		
J	0.00	0.10	0.05		
К	0.60	0.80	0.75		
L	0.10	0.30	0.22		
М	0.10	0.20	0.12		
Ν	0.45	0.65	0.50		
α	0°	8°	_		
All	Dimens	ions in	mm		

Suggested Pad Layout



Dimensions	Value (in mm)
Z	1.8
Х	0.4
Y	0.51
С	1.3
Е	0.7

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