PZX363C3V9

FIVE ELEMENT MOUNT ZENER DIODE ARRAY

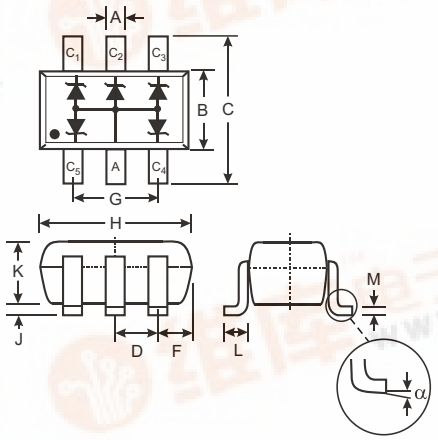
NEW PRODUCT

Features

- Other Zener Voltages Available Upon Request
- Ultra-Small Surface Mount Package
- Ideal For Transient Suppression
- Lead Free, Green Package

Mechanical Data

- Case: SOT-363, Molded Plastic
- Case Material - Green Molding Compound CEL-1702HF9, UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Finish - Matte Tin (Note 4) Solderable per MIL-STD-202, Method 208
- Lead Free Device
- Orientation: See Diagram
- Marking: See Page 3
- Weight: 0.006 grams (approx.)
- Ordering Information: See Page 3



SOT-363		
Dim	**Min**	**Max**
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 1) @ I_F = 10mA	V_F	0.9	V
Power Dissipation	P_d	200	mW
Thermal Resistance, Junction to Ambient Air (Note 3)	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range (Note 3)	T_j, T_{STG}	-65 to +150	°C

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} = 5.0mA			Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R		T_C (mV/°C)	
		Nom (V)	Min (V)	Max (V)	Ω	mA	Ω	mA	μA	V	Min	Max
PZX363C3V9	KZZ	3.9	3.7	4.1	90	5.0	600	1.0	3.0	1.0	-3.5	0

Notes:
1. Short duration test pulse used to minimize self-heating effect.
2. f = 1KHz.
3. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
4. If lead-bearing terminal plating is required, please contact your Diodes Inc. sales representative for availability and minimum order details.

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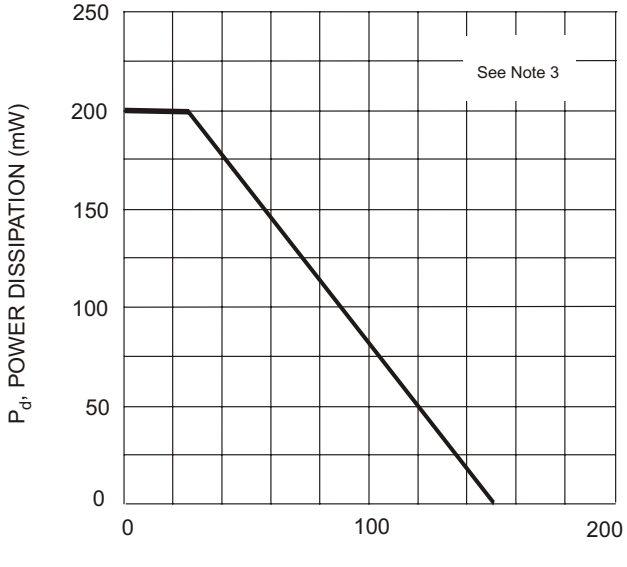


Fig. 1. Power Derating Curve

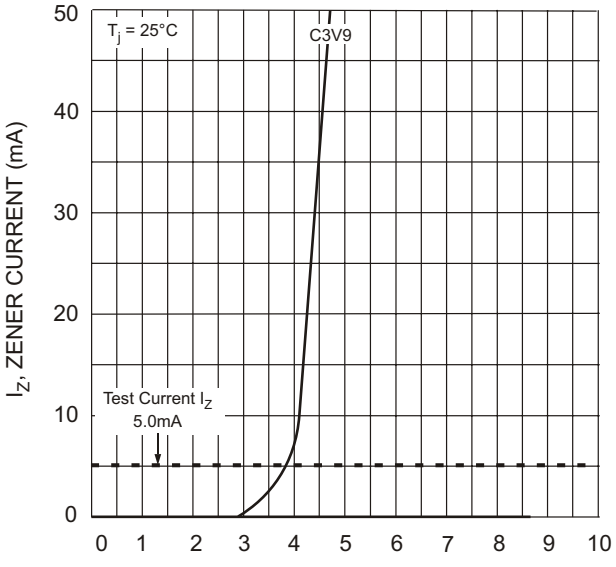


Fig. 2 Zener Breakdown Characteristics

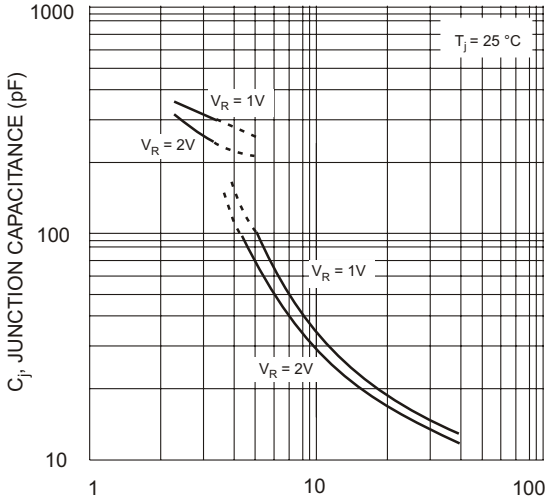


Fig. 3 Junction Capacitance vs Nominal Zener Voltage

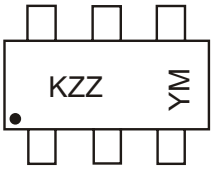
NEW PRODUCT

Ordering Information (Note 5)

Device	Packaging	Shipping
PZX363C3V9-7	SOT-363	3000/Tape & Reel

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

Marking Information



KZZ = Product Type Marking Code
YM = Date Code Marking
Y = Year ex: R = 2004
M = Month ex: 9 = September

Date Code Key

Year	2004	2005	2006	2007	2008	2009
Code	R	S	T	U	V	W

Month	Jan	Feb	March	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D