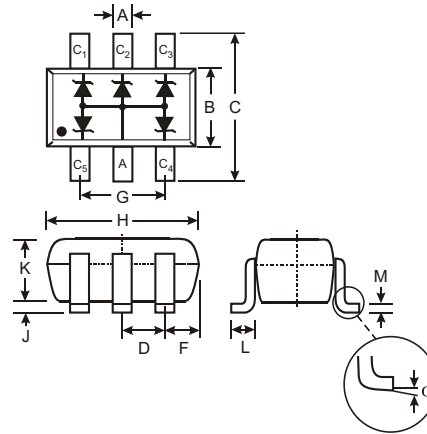


### Features

- 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



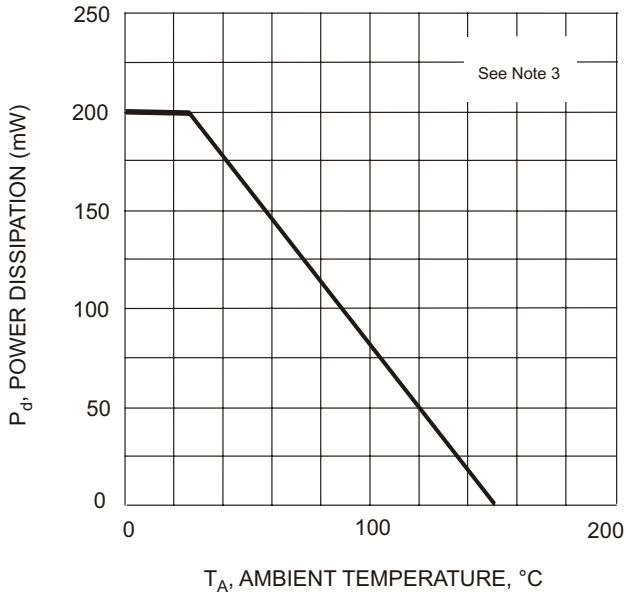
SOT-363		
Dim	Min	Max
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25
$\alpha$	0°	8°
All Dimensions in mm		

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

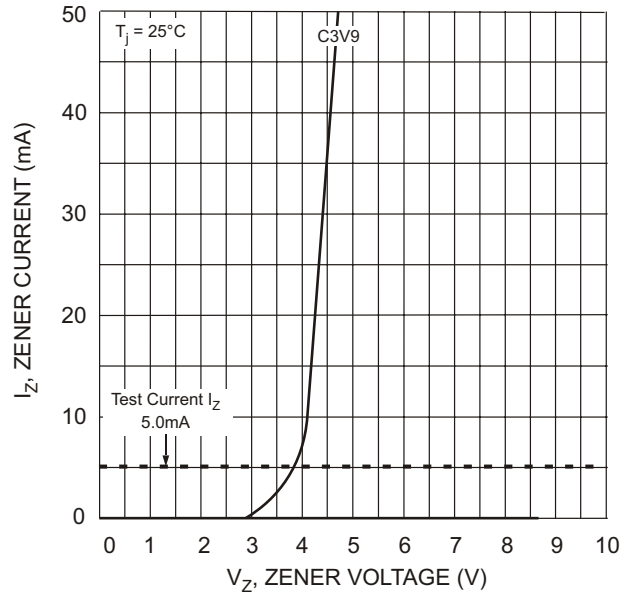
Characteristic	Symbol	Value	Unit
Forward Voltage (Note 1) @ $I_F = 10\text{mA}$	$V_F$	0.9	V
Power Dissipation	$P_d$	200	mW
Thermal Resistance, Junction to Ambient Air (Note 3)	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range (Note 3)	$T_J, T_{STG}$	-65 to +150	$^\circ\text{C}$

Type Number	Marking Code	Zener Voltage Range (Note 1)			Maximum Zener Impedance (Note 2)				Maximum Reverse Current (Note 1)		Temperature Coefficient of Zener Voltage @ $I_{ZT} = 5\text{mA}$	
		$V_Z @ I_{ZT} = 5.0\text{mA}$			$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		$T_C (mV/^\circ\text{C})$	
		Nom (V)	Min (V)	Max (V)	$\Omega$	$\text{mA}$	$\Omega$	$\text{mA}$	$\mu\text{A}$	V	Min	Max
PZX363C3V9	KZZ	3.9	3.7	4.1	90	5.0	600	1.0	3.0	1.0	-3.5	0

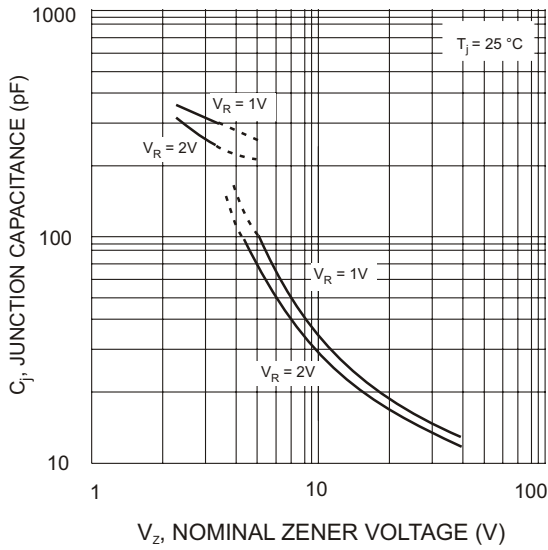
- Notes:
1. Short duration test pulse used to minimize self-heating effect.
  2.  $f = 1\text{KHz}$ .
  3. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
  4. If lead-bearing terminal plating is required,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



$T_A$ , AMBIENT TEMPERATURE, °C  
Fig. 1. Power Derating Curve



$I_Z$ , ZENER CURRENT (mA)  
 $V_Z$ , ZENER VOLTAGE (V)  
Fig. 2. Zener Breakdown Characteristics



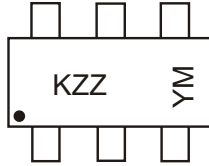
$V_Z$ , NOMINAL ZENER VOLTAGE (V)  
Fig. 3. Junction Capacitance vs Nominal Zener Voltage

**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