

#### **Thermal Characteristics**

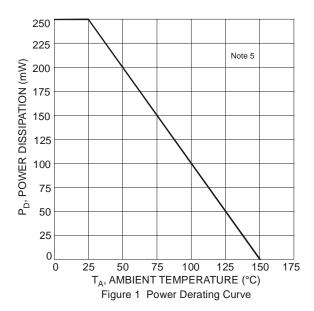
Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	$P_{D}$	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{ hetaJA}$	500	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	°C

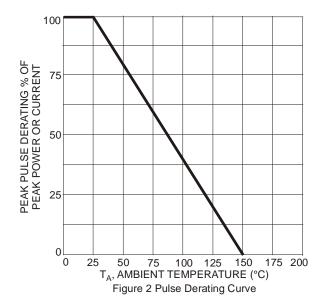
## **Electrical Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Standoff Voltage	$V_{RWM}$	_	_	12	V	_
Channel Leakage Current (Note 6)	I <sub>RM</sub>	_	1	100	nA	V <sub>RWM</sub> = 12V
Clamping Voltage, IEC 61000-4-5	V <sub>CL</sub>	_	_	20	V	$I_{PP} = 1A$ , $tp = 8/20\mu S$
		_	_	25		$I_{PP} = 4A$ , $tp = 8/20\mu S$
Breakdown Voltage	$V_{BR}$	13	_	_	V	I <sub>R</sub> = 1mA
Channel Input Capacitance	C <sub>T</sub>	_	20	26	pF	$V_R = 0V$ , $f = 1MHz$

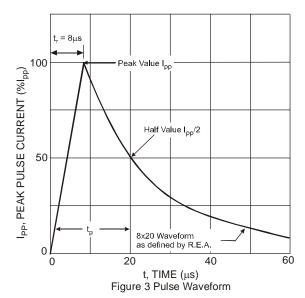
Notes:

- 5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.









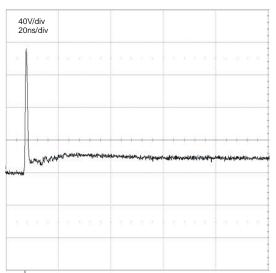


Figure 5 ESD Response to IEC 61000-4-2 (+8kV Contact Discharge)

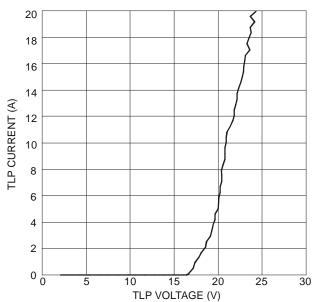
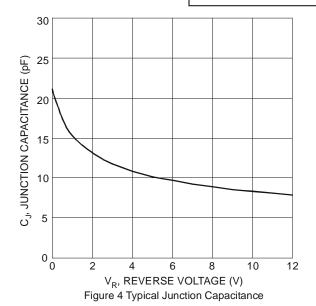


Figure 7 Transmission Line Pulsing (TLP) Current vs. Voltage



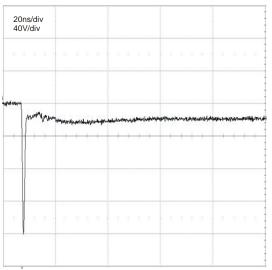
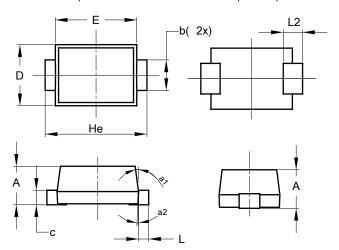


Figure 6 ESD Response to IEC 61000-4-2 (-8kV Contact Discharge)



# **Package Outline Dimensions**

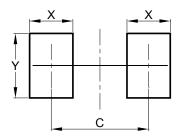
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



	SOD923					
(0.	(0.3mm Lead Width)					
Dim	Min	Max	Тур			
Α	0.34	0.40	0.37			
b	0.25	0.35	0.30			
C	0.05	0.15	0.10			
D	0.55	0.65	0.60			
Е	0.75	0.85	0.80			
Не	0.95	1.05	1.00			
L	0.05	0.15	0.10			
L2	0.190 REF					
a1	0°	8°	7°			
a2	2°	4°	3°			
All Dimensions in mm						

## **Suggested Pad Layout**

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for latest version.



Dimensions	Value		
Difficusions	(in mm)		
С	0.900		
X	0.400		
Υ	0.600		



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