

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	P _{PP}	84	W	8/20µs, per Figure 1
Peak Pulse Current	I _{PP}	6	А	8/20µs, per Figure 1
ESD Protection – Contact Discharge	VESD_Contact	±30	kV	IEC 61000-4-2 Standard
ESD Protection – Air Discharge	V _{ESD_Air}	±30	kV	IEC 61000-4-2 Standard

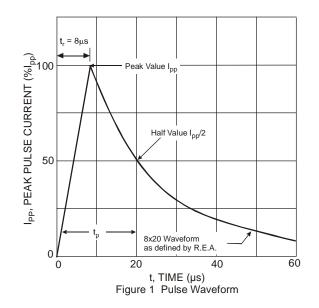
Thermal Characteristics

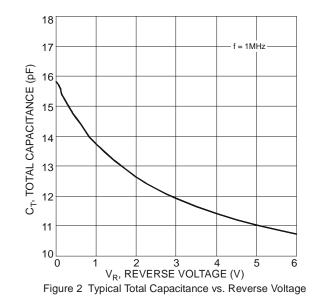
Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	PD	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	R _{0JA}	500	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Standoff Voltage	V _{RWM}	_	_	5	V	—
Channel Leakage Current (Note 6)	I _{RM}	—	10	100	nA	V _{RWM} = 5V
Clamping Voltage, Positive Transients		—	7.0	9.0	V	I _{PP} = 1A, t _p = 8/20μS
	N/	_	8.7	10.7		$I_{PP} = 3A, t_p = 8/20\mu S$
	V _{CL}	_	10.5	12.0		I _{PP} = 5A, t _p = 8/20μS
		_	11.5	14.0		I _{PP} = 6A, t _p = 8/20µS
Breakdown Voltage	V _{BR}	6	7	8	V	I _R = 1mA
Differential Resistance	R _{DIF}	—	0.2	_	Ω	I _R = 1A, t _p = 8/20µS
Channel Input Capacitance	CIN	_	15	20	pF	$V_R = 0V, f = 1MHz$

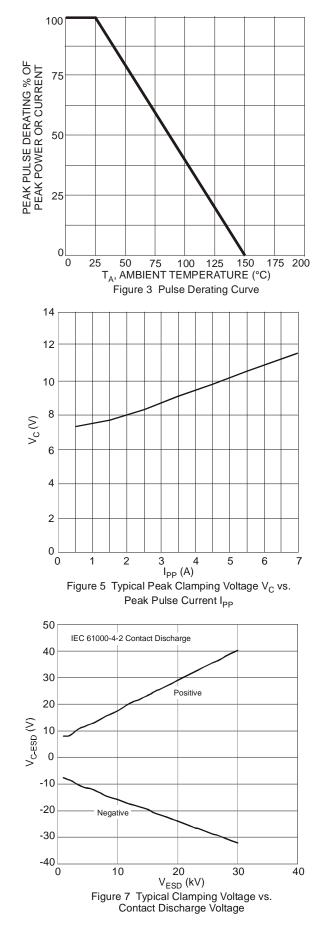
5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website Notes: at http://www.diodes.com.6. Short duration pulse test used to minimize self-heating effect.

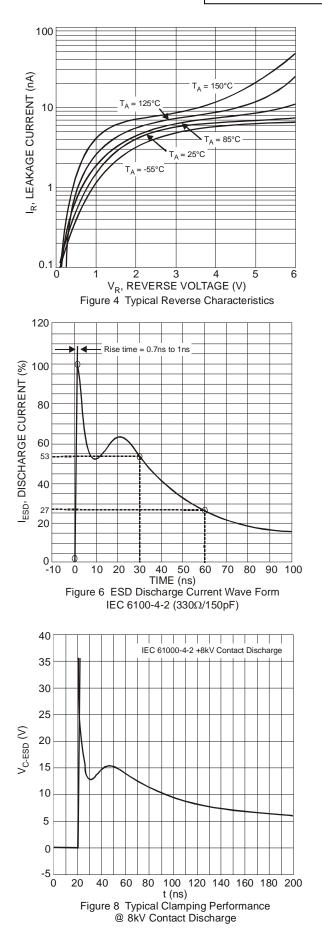






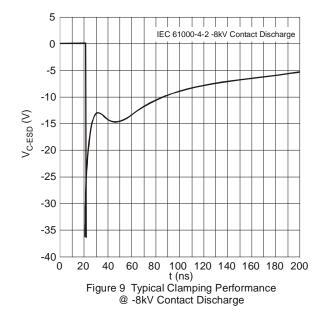
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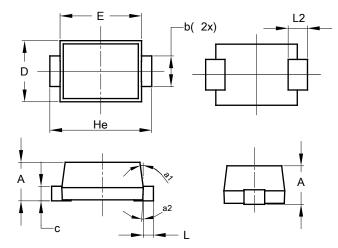
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Package Outline Dimensions

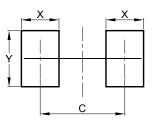
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



SOD923						
•	(0.3mm Lead Width)					
Dim	Min	Max	Тур			
Α	0.34	0.40	0.37			
b	0.25	0.35	0.30			
С	0.05	0.15	0.10			
D	0.55	0.65	0.60			
E	0.75	0.85	0.80			
He	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		
Dimensions	(in mm)		
С	0.900		
Х	0.400		
Y	0.600		

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