

Features

- · Bidirectional Configurations
- Protects One Power or I/O Port
- · Low Camping Voltage
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

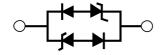
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

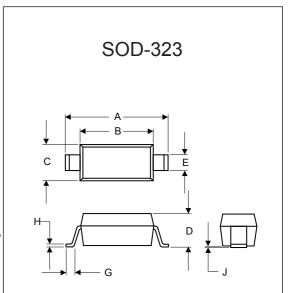
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		80A
Peak Pulse Power (8/20us)	P _{PK}	350W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

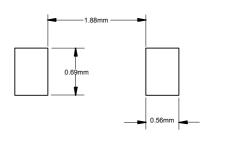


ESD Protection Device



	DIMENSIONS					
DIM INCHE		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
E	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

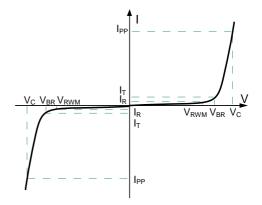
Suggested Solder Pad Layout





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ I _{PP}		
V_{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		

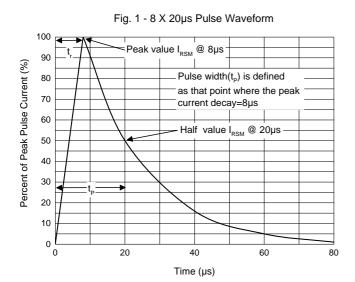


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				8	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	8.5			V
Reverse Leakage Current	I _R	V _{RWM} =8V			1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			13	V
Clamping Voltage	V _C	I _{PP} =18A, t _P =8/20μs			31.6	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		3		pF



Curve Characteristics



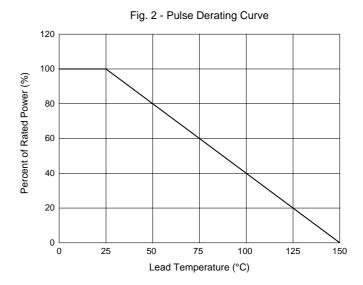
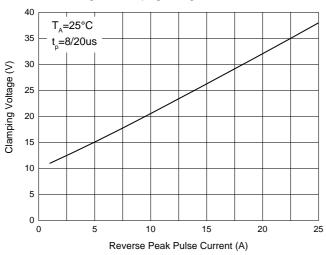


Fig. 3 - Clamping Voltage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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