

Features

- Low Clamping Level
- 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

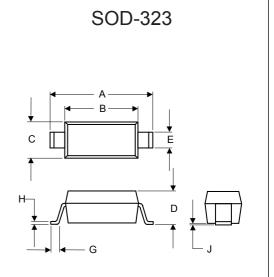
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

Device Marking
R2 / DC

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	12A
Peak Pulse Power (8/20us)	P _{PK}	500W

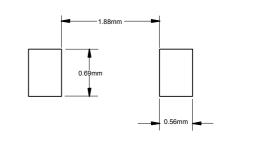
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





DIMENSIONS					
DIM	INCHES		M	М	NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	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	
Е	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

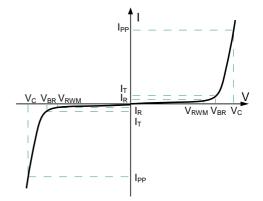


Internal Structure



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

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
Ι _Τ	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}				12	V
Reverse Breakdown Voltage	V_{BR}	Ι _T = 1mA	13.3		17.8	V
Reverse Leakage Current	I _R	V _{RWM} =12V			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			19	V
Clamping Voltage	V _C	I _{PP} =12A, t _P =8/20μs		29		V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		0.8	1.5	pF





Curve Characteristics

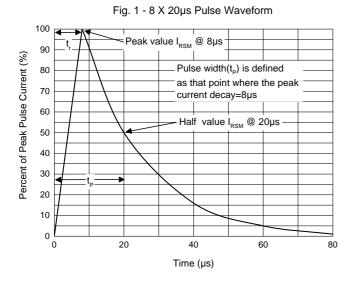
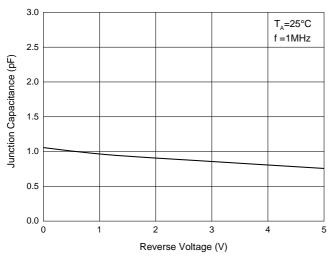
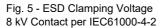
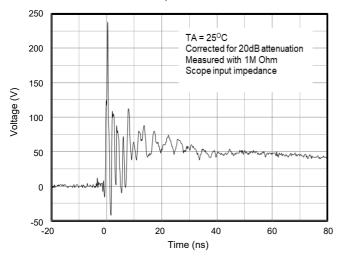


Fig. 3 - Capacitance Characteristics







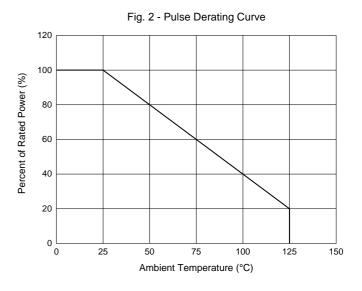
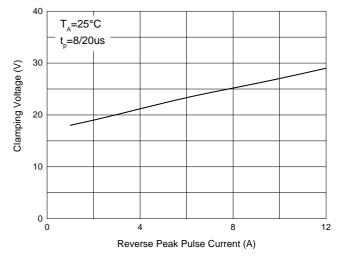


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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