

Features

- · Uni-Directional ESD Protection of One Line
- Low Leakage Current
- Low Clamping Voltage
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

ESD Protection Device

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (E3D)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	32A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	350W		
Operating Junction Temperature Range	Тл	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

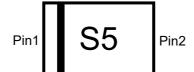
Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

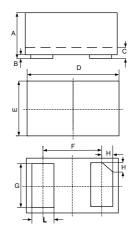
Internal Structure

Marking Code



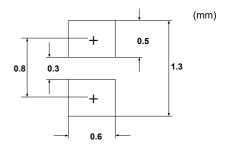


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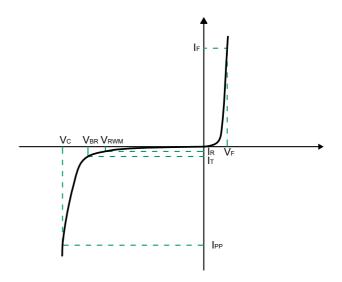
DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.037	0.041	0.95	1.05		
Е	0.022	0.026	0.55	0.65		
F	0.0)26	0.6	650	TYP.	
G	0.018	0.022	0.45	0.55		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter	
V_{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V_{BR}	Breakdown Voltage @ IT	
IT	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
CJ	Junction Capacitance	
I _F	Forward Current	
V _F	Forward Voltage @ IF	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

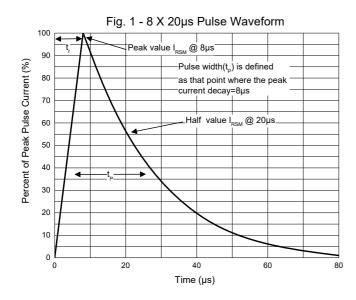
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				6.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.8	7.2		V
Reverse Leakage Current	I _R	V _{RWM} =6.3V			0.3	μA
Forward Voltage	V _F	I _F =10mA		0.9	1.4	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			9	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =32A, t _P =8/20μs			12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		100	150	pF

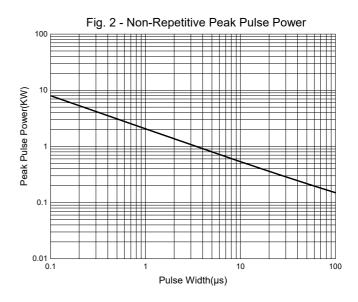
Note:

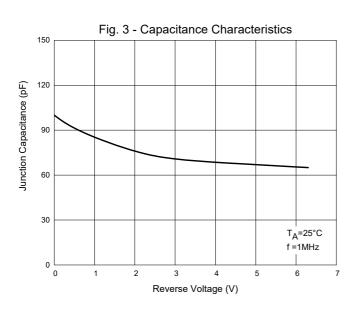
 $^{1.} Non-repetitive \ current \ pulse \ 8/20 \mu s \ exponential \ decay \ waveform \ according \ to \ IEC 61000-4-5.$

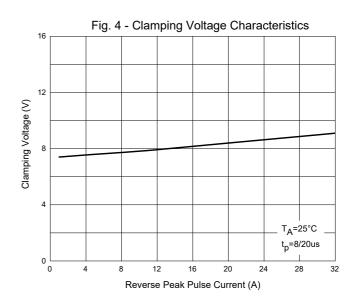


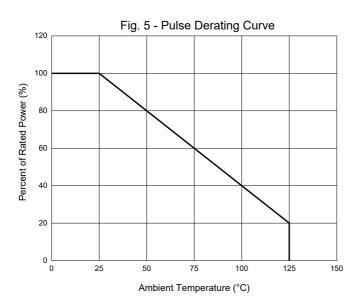
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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