

Features

- · Uni-Directional ESD Protection of One Line
- · Ultra Low Capacitance
- 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)

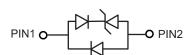
Maximum Ratings

JE004000 4 0 (EOD)	Air	±20KV		
IEC61000-4-2 (ESD)	Contact	±20KV		
Peak Pulse Current (8/20µs)	I _{PP}	4A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	100W		
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

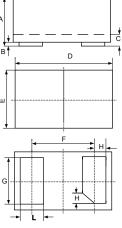


Marking Information



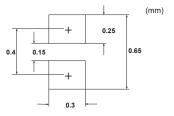
ESD Protection Device

0201-A



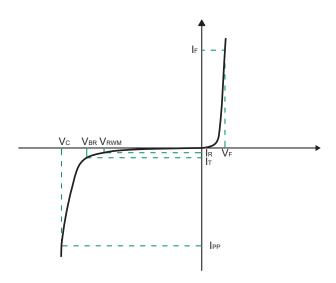
DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.009	0.013	0.23	0.33	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.022	0.026	0.55	0.65	
Е	0.010	0.014	0.25	0.35	
F	0.0)14	0.3	355	TYP.
G	0.008	0.011	0.22	0.28	
Н	0.0	003	0.0	79	TYP.
L	0.006	0.009	0.16	0.22	

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)

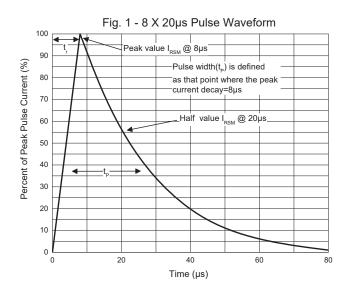
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}			8		V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	8.5			V
Reverse Leakage Current	I _R	V _{RWM} =8V			0.2	μΑ
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			14	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =4A, t _P =8/20μs			25	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.3		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.61		Ω

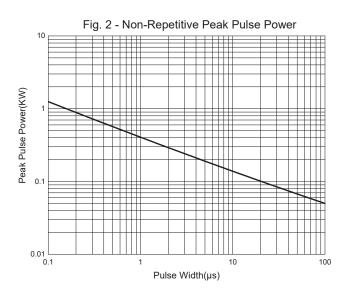
Note:

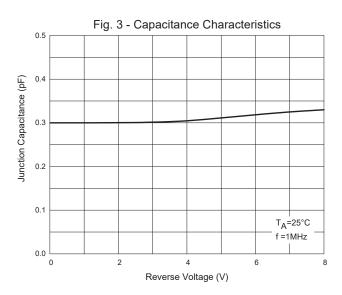
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

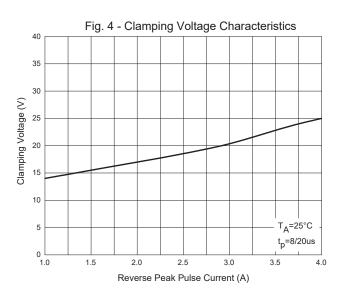


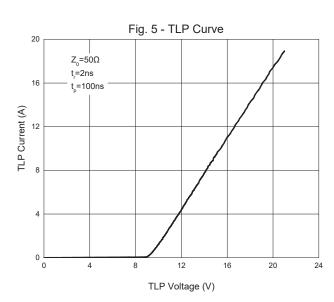
Curve Characteristics

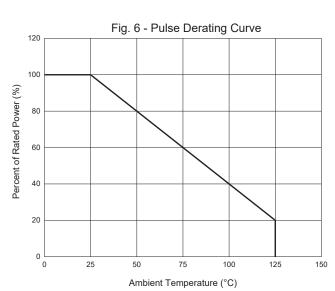














Ordering Information

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

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