

Features

- · Bi-Directional ESD Protection of One Line
- · 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

IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	10A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	50W		
Junction Temperature Range	Т	-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

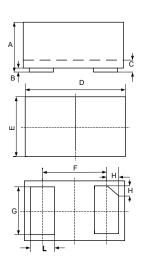
Marking Code



3Z

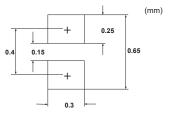
Snap Back ESD Protection Device

0201-A



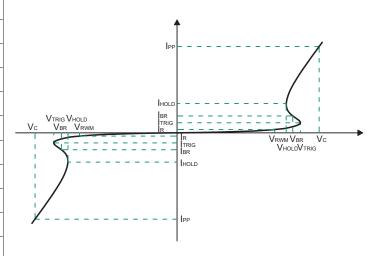
	DIMENSIONS				
DIM INC		HES MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.009	0.013	0.23	0.33	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.022	0.026	0.55	0.65	
Е	0.010	0.014	0.25	0.35	
F	0.0)14	0.3	355	TYP.
G	0.008	0.011	0.22	0.28	
Н	0.0	003	0.0	79	TYP.
L	0.006	0.009	0.16	0.22	

SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter		
V _{RWM}	Peak Reverse Working Voltage		
I _R	Reverse Leakage Current @ VRWM		
V _{BR}	Breakdown Voltage @ IT		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ IPP		
V _{TRIG}	Reverse Trigger Voltage		
I _{TRIG}	Reverse Trigger Current		
V_{HOLD}	Reverse Holding Voltage		
I _{HOLD}	Reverse Holding Current		
CJ	Junction Capacitance		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

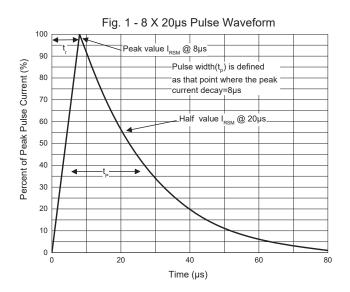
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Punch-Through Voltage	V _{PT}	I _T =2µA	3.5			V
Snap-Back Voltage	V _{SB}	I _T =50mA	0.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		4		V
Clamping Voltage ^{Note1}	V _C	I _{PP} =10A, t _P =8/20μs		5		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.6		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.2		Ω

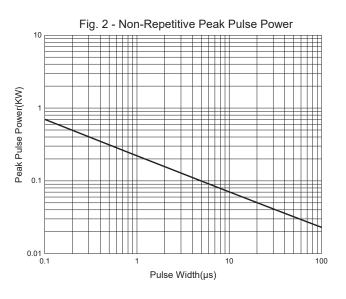
Note:

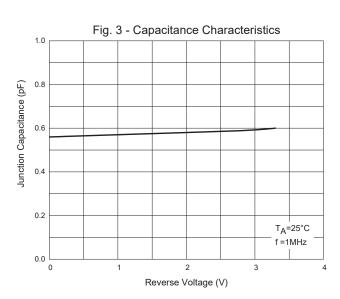
^{1.}Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

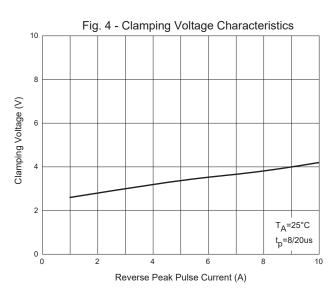


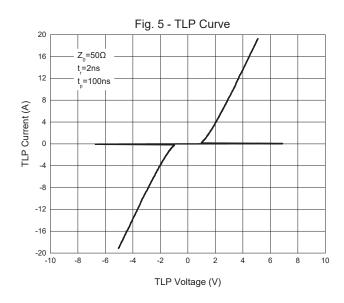
Curve Characteristics

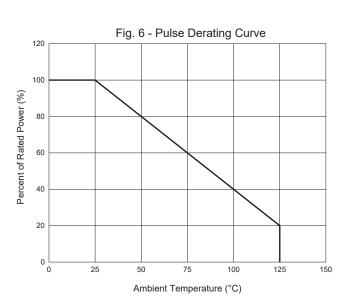














Ordering Information

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

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