

Features

- · 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)

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
(EGD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	13A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	130W		
Operating Junction Temperature Range	TJ	-40°C to +85°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

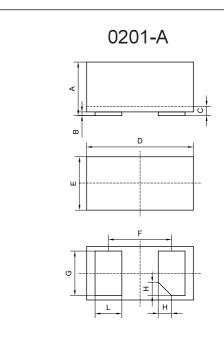
Note:

^{2.} Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

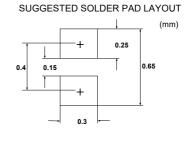
Internal Structure	Marking Code

4R

Snap Back ESD Protection Device



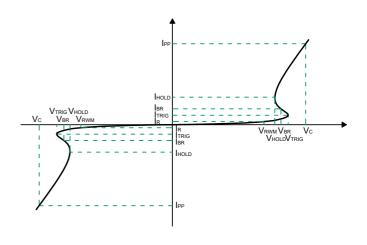
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.009	0.013	0.23	0.33		
В	0.000	0.002	0.00	0.05		
С	0.004	0.007	0.10	0.18		
D	0.022	0.027	0.55	0.67		
Е	0.010	0.015	0.25	0.37		
F	0.0)14	0.3	355	TYP.	
G	0.008	0.011	0.20	0.28		
Н	0.003		0.079		TYP.	
L	0.004	0.009	0.1Î	0.22		



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



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		
C _J	Junction Capacitance		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

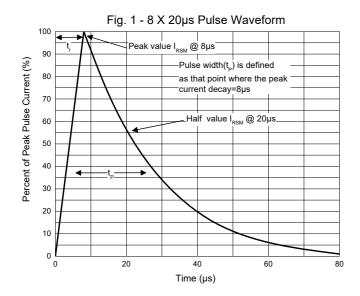
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			9.5	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =13A, t _P =8/20μs			10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.5		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.24		Ω

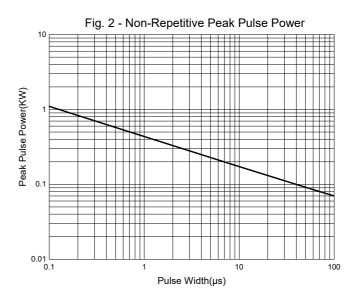
Note:

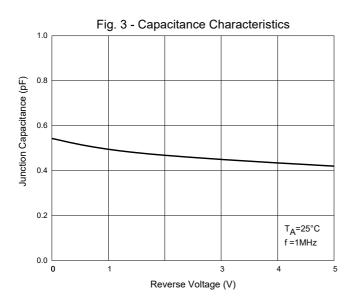
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: $Z0=50\Omega$, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.

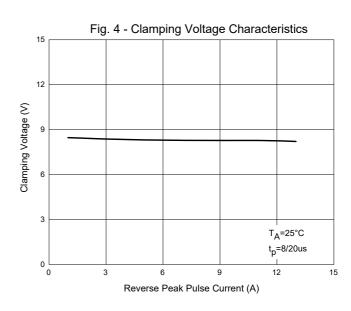


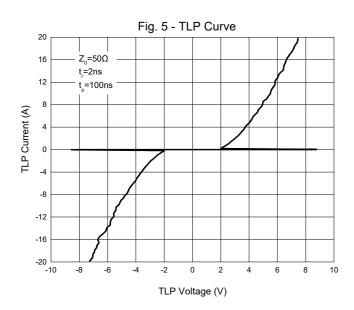
Curve Characteristics

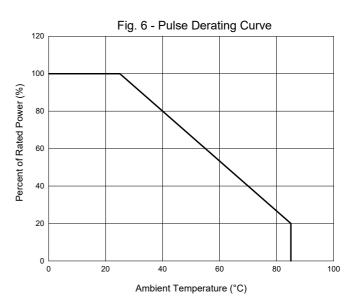














Ordering Information

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

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