

Features

- Protects One Data or Power Line
- Ultra Low Leakage
- Low Clamping Voltage
- 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

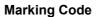
IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	100W	
Peak Pulse Current (8/20µs) ^(Note 2)	lpp	12A	
Operating Junction Temperature Range	ТJ	-55°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

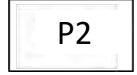
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + CI) and <1000ppm antimony compounds.

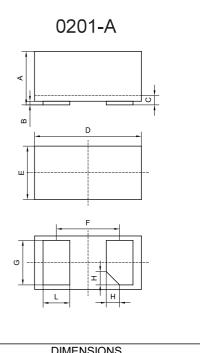
2.Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure



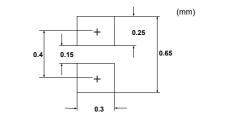






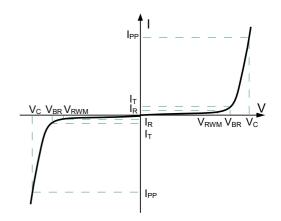
	DIMENSIONS					
DIM	INCHES		MM		NOTE	
Divi	MIN	MAX	MIN	MAX	NOTE	
Α	0.009	0.013	0.23	0.33		
В	0.000	0.002	0.00	0.05		
С	0.004	0.007	0.10	0.18		
D	0.022	0.027	0.55	0.67		
E	0.010	0.015	0.25	0.37		
F	0.0)14	0.3	355	TYP.	
G	0.008	0.011	0.20	0.28		
Н	0.0	03	0.0	79	TYP.	
L	0.004	0.009	0.16	0.22		

SUGGESTED SOLDER PAD LAYOUT





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⊤		
Ι _Τ	Test Current		
С	Capacitance $@V_R=0$ and f =1MHz		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

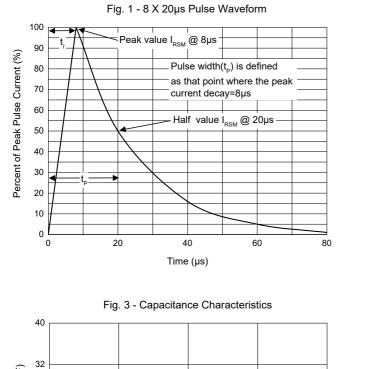
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				1.8	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	2.5			V
Reverse Leakage Current	I _R	V _{RWM} =1.8V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20µs			3.5	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =12A, t _P =8/20μs			8.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			30	pF

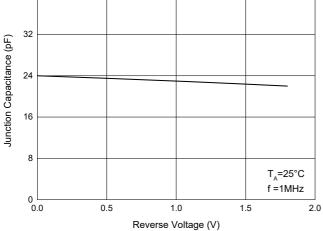
Note:

1. Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.



Curve Characteristics







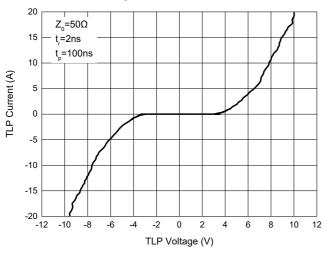


Fig. 2 - Non-Repetitive Peak Pulse Power

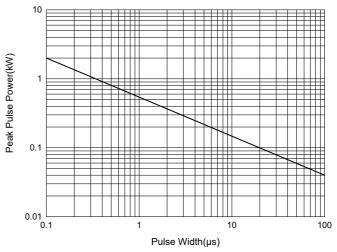


Fig. 4 - Clamping Voltage Characteristics

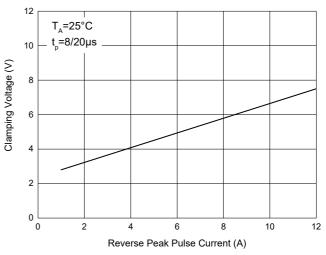
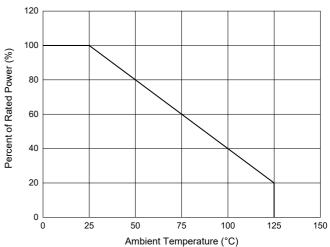


Fig. 6 - Pulse Derating Curve







Ordering Information

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

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