

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)



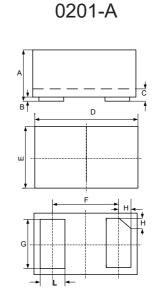
Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	100W	
Peak Pulse Current (8/20µs) ^(Note 2)	lpp	5A	
Operating Junction Temperature Range	Тj	-55°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

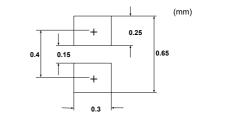
Note:

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

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



DIM	INCHES		IENSIONS MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	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					
(mm)					
	1	<u>_</u>	+ a	.25	



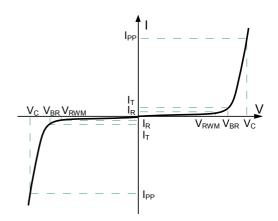
Marking Information

BH

Internal Structure



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 _T		
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}				12	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	13.3			V
Reverse Leakage Current	I _R	V _{RWM} =12V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			16	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs			20	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		8	10	pF

Note:

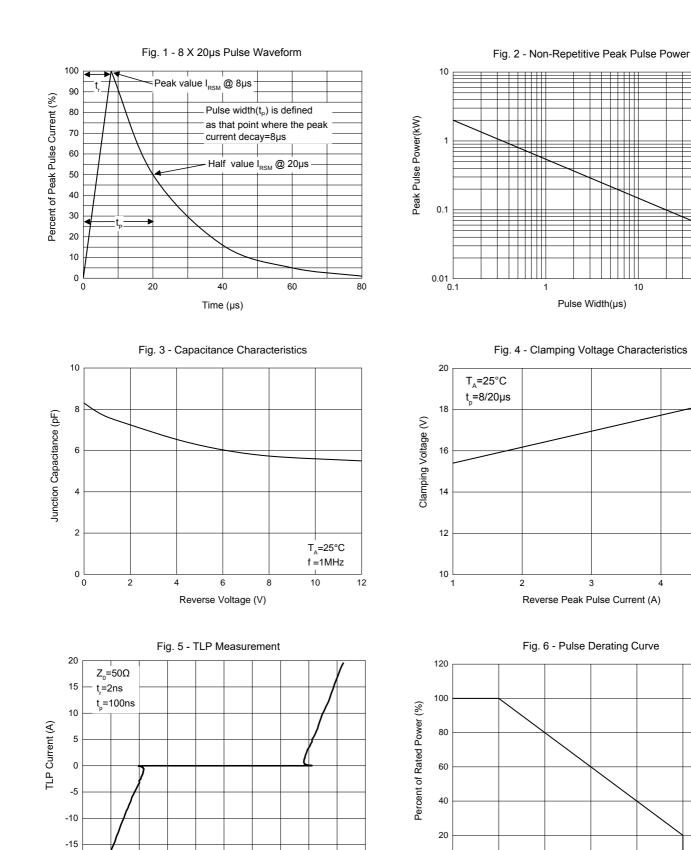
1. Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

100

5



Curve Characteristics



-20

-25

-20

-15

-10

-5

0

TLP Voltage (V)

5

10

15

20

25

0 L 0

25

50

75

Ambient Temperature (°C)

100

125

150



Ordering Information

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

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