

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)

ESD Protection Device

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
(EGD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	7A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	130W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

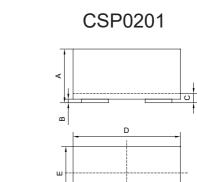
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

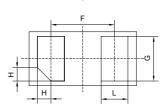
Marking Code

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

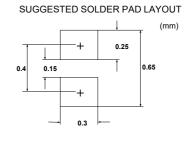
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Internal Structure



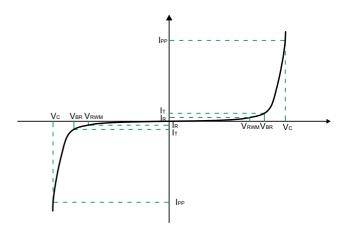


DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.008	0.013	0.21	0.33		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.022	0.026	0.55	0.65		
Е	0.010	0.014	0.25	0.35		
F	0.0)14	0.3	355	TYP.	
G	0.008	0.011	0.215	0.28		
Н	0.0	003	0.0	79	TYP.	
L	0.006	0.009	0.1Î	0.22		





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 Curren	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

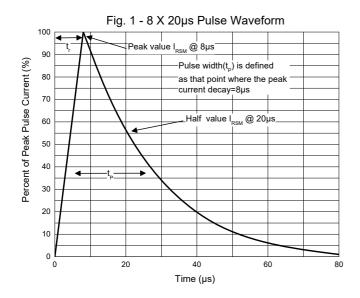
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	13	14		V
Reverse Leakage Current	I _R	V _{RWM} =12V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		15	17	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =7A, t _P =8/20μs		18	21	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		8	12	pF

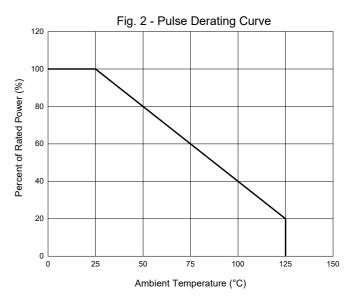
Note:

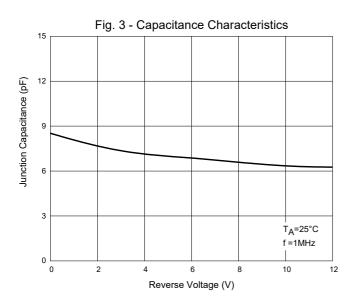
 $^{1.} Non-repetitive \ current \ pulse \ 8/20 \mu s \ exponential \ decay \ waveform \ according \ to \ IEC 61000-4-5.$

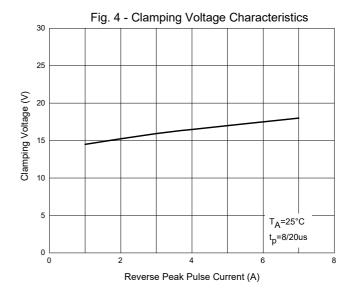


Curve Characteristics











Ordering Information

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

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