

Features

- ESD Protection of One Line
- Low Clamping Voltage
- Ultra Low Leakage Current
- 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

Snap Back
ESD Protection
Device

IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	100A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	900W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note :

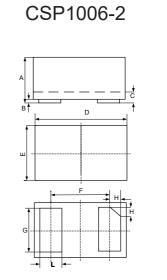
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

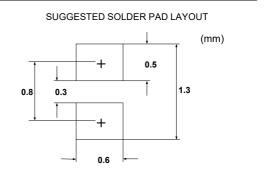
Internal Structure

Marking Code



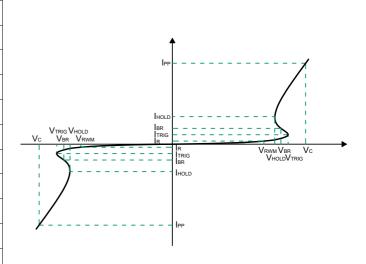


	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.016	0.022	0.40	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
Е	0.022	0.026	0.55	0.65	
F	0.026		0.650		TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	





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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}				4.5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	4.8		6.3	V
Reverse Leakage Current	I _R	V _{RWM} =4.5V			0.5	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =50A, t _P =8/20μs		7	8.5	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =100A, t _P =8/20μs		8.5	10.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		200	300	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.015		Ω

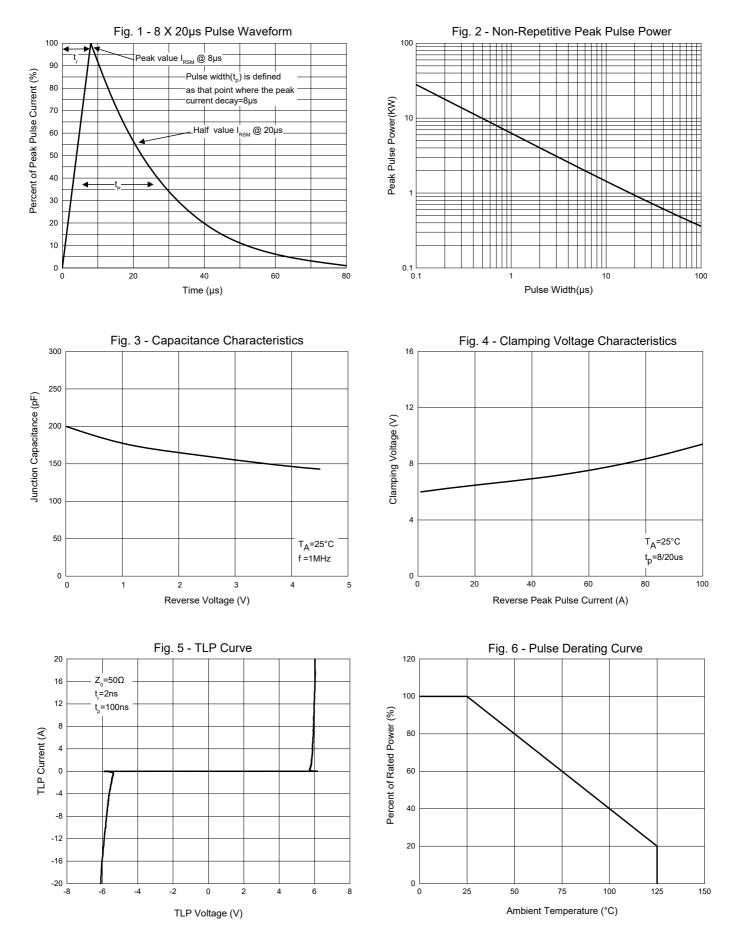
Note :

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

2.TLP parameter: $Z_0=50\Omega$, 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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