

Features

- Low Leakage Current
- Low Clamping Voltage
- Ultra Low Capacitance
- 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
IEC01000-4-2 (ESD)	Contact	±30KV
Peak Pulse Current (8/20µs)	I _{PP}	12A
Peak Pulse Power (8/20µs) ^(Note2)	Р _{РК}	200W
Operating Junction Temperature Range	TJ	-55°C to +125°C
Storage Temperature Range	T _{STG}	-55°C to +150°C

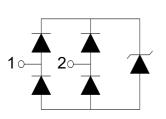
Note :

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

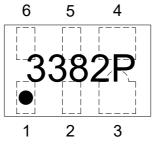
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

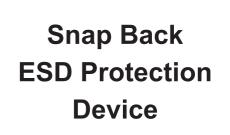
Internal Structure

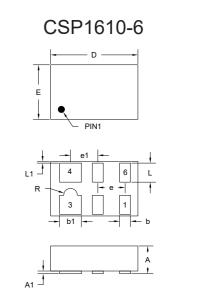
Marking Code



Marking Coat

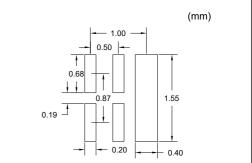






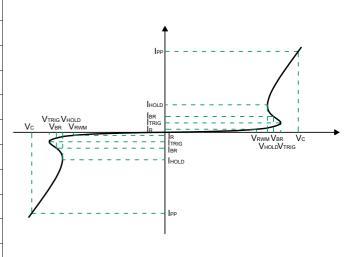
	DIMENSIONS				
	INCH		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.018	0.022	0.450	0.550	
A1	0.001	0.003	0.025	0.075	
D	0.061	0.065	1.550	1.650	
E	0.037	0.041	0.950	1.050	
b	0.006	0.010	0.150	0.250	
b1	0.014	0.018	0.350	0.450	
L	0.012	0.016	0.300	0.400	
L1	0.000	0.002	0.000	0.060	
R	0.005		0.125		TYP
е	0.020		0.500		TYP
e1	0.020		0.500		TYP

SUGGESTED SOLDER PAD LAYOUT





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}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =2uA	3.8	4.6	6	V
Reverse Breakdown Voltage	V _{BR}	I _T =50mA	4	5	6.2	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.05	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			8	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =12A, t _P =8/20μs			16.5	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.4	0.5	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.3		Ω

Note :

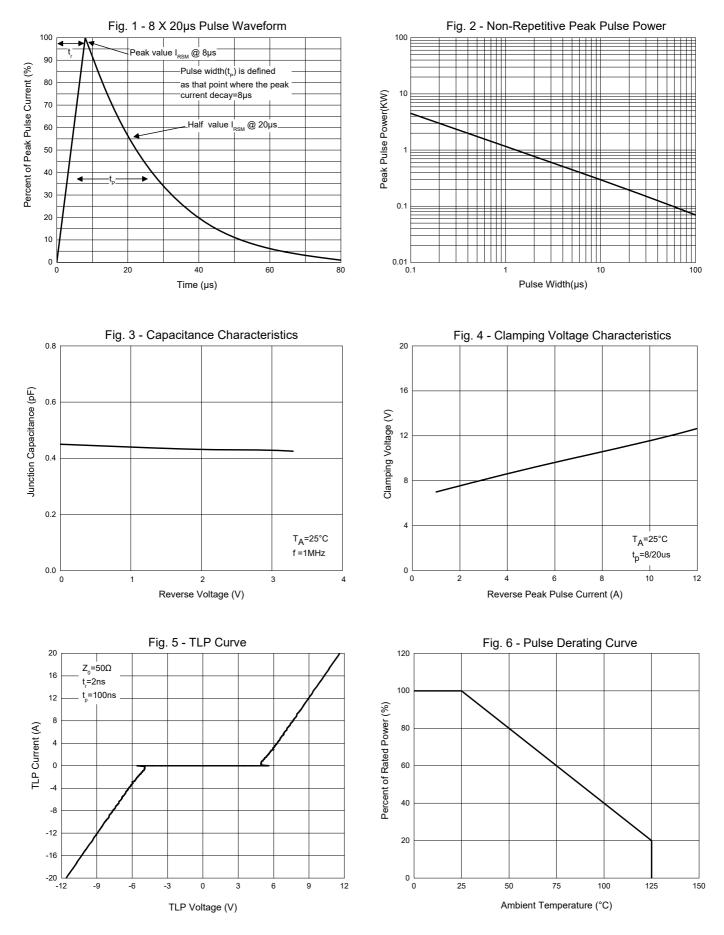
1.Non-repetitive current pulse 8/20 $\!\mu s$ exponential decay waveform according to IEC61000-4-5.

 $2.TLP \ parameter: Z_0=50\Omega, \ tp=100 ns, \ tr=2ns, \ averaging \ window \ from \ 60ns \ to \ 80ns. \ R_{DYN} \ is \ calculated \ from \ 4A \ to \ 16A.$

3.All measured from Pin1 to Pin2



Curve Characteristics





Ordering Information

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

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