

Features

- · ESD Protection of One Line
- · 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)

Snap Back ESD Protection Device

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±15KV		
IEC01000-4-2 (E3D)	Contact	±12KV		
Peak Pulse Current (8/20µs)	I _{PP}	4A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	13W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

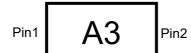
Note:

- 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.

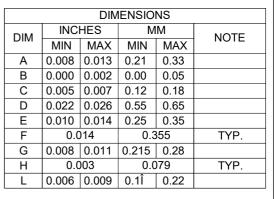
Internal Structure

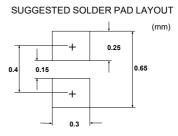
Marking Code





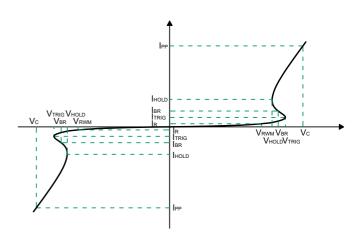
CSP0201







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		
C _J	Junction Capacitance		



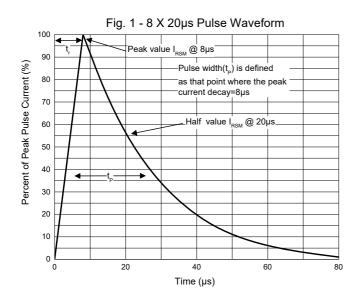
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

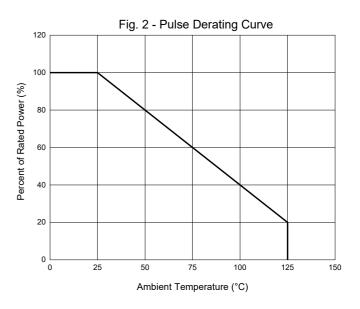
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =0.1mA	4.5	6.5	8	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.1	μA
Clamping Voltage ^{Note1}	V_{C}	I_{PP} =1A, t_{P} =8/20 μ s		1.75		V
Clamping Voltage ^{Note1}	V _C	I _{PP} =4A, t _P =8/20μs		2.9		V
Junction Capacitance	CJ	V _R =1V, f=1MHz		0.2		pF
Dynamic Resistance Note2	R_{DYN}	TLP, t _P =100ns		0.19		Ω

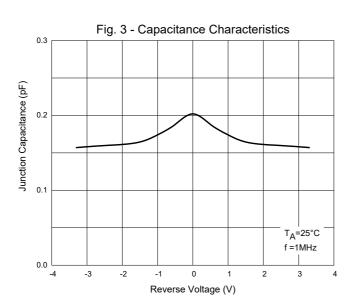
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: $Z0=50\Omega$, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.

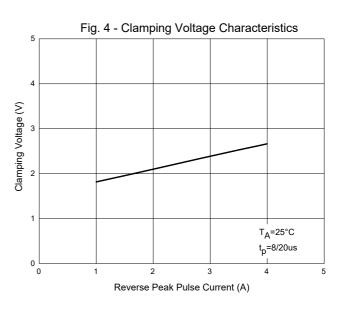


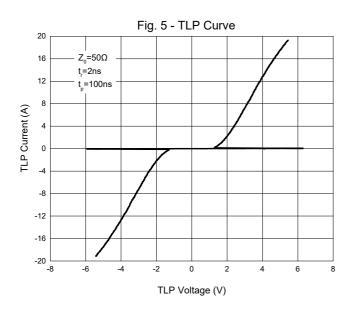
Curve Characteristics













Ordering Information

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

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