

Features

- Uni-Directional ESD Protection of One Line
- 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)

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
(ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	8A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	100W		
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.

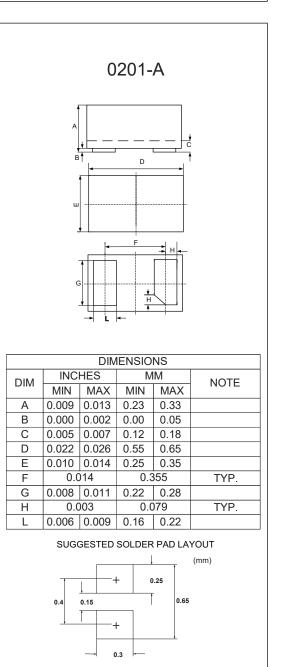
Internal Structure



Marking Information

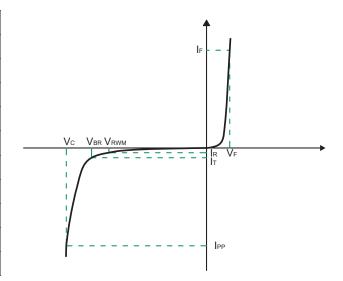








Symbol	Parameter		
Cymbol	i alameter		
V _{RWM}	Peak Reverse Working Voltage		
۱ _R	Reverse Leakage Current @ VRWM		
V _{BR}	Breakdown Voltage @ IT		
IT	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ IPP		
P _{PK}	Peak Pulse Power		
CJ	Junction Capacitance		
١ _F	Forward Current		
V _F	Forward Voltage @ IF		

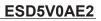


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6		8.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μA
Forward Voltage	V _F	I _F =10mA		1.0	1.2	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =8A, t _P =8/20μs			12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		60		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.17		Ω

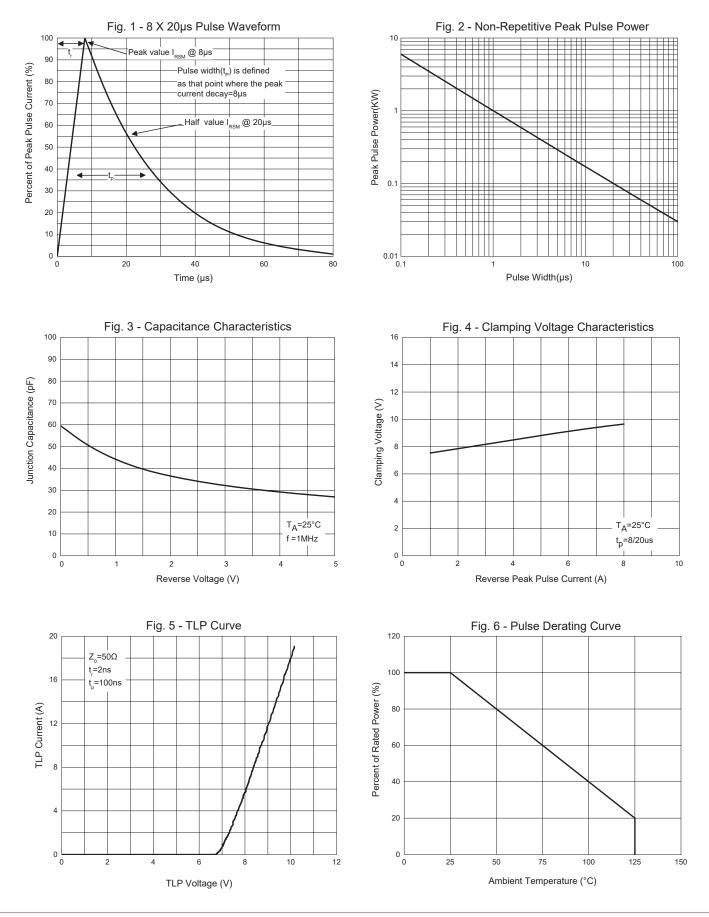
Note :

1.Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z₀=50 Ω , 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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