

Features

- Uni-Directional ESD Protection of One Line
- Ultra Low Capacitance
- 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

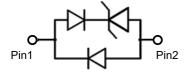
IEC61000-4-2 (ESD)	Air	±25KV
IEC01000-4-2 (ESD)	Contact	±20KV
Peak Pulse Current (8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20µs) ^(Note2)	Р _{РК}	75W
Operating Junction Temperature Range	TJ	-55°C to +125°C
Storage Temperature Range	T _{STG}	-55°C to +150°C

Note :

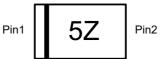
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

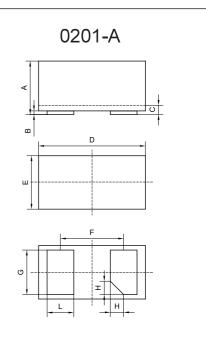
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure







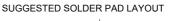


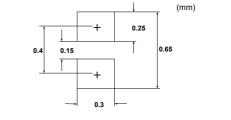
ESD

Protection

Device

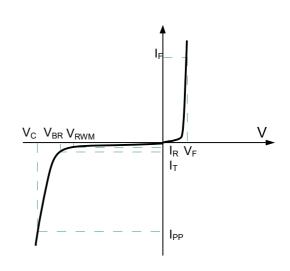
	DIMENSIONS					
		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
А	0.009	0.013	0.23	0.33		
В	0.000	0.002	0.00	0.05		
С	0.004	0.007	0.10	0.18		
D	0.022	0.027	0.55	0.67		
Е	0.010	0.015	0.25	0.37		
F	0.0)14	0.3	355	TYP.	
G	0.008	0.011	0.20	0.28		
Н	0.0	003	0.0	079	TYP.	
L	0.004	0.009	0.1Î	0.22		







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 Current	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
CJ	Junction Capacitance	
I _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			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Forward Voltage	V _F	I _F =10mA			1.2	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =1A, t _P =8/20μs			10	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =5A, t _P =8/20μs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.6	0.8	pF
Dynamic Resistance Note2	R_{DYN}	TLP, t _P =100ns		0.7		Ω

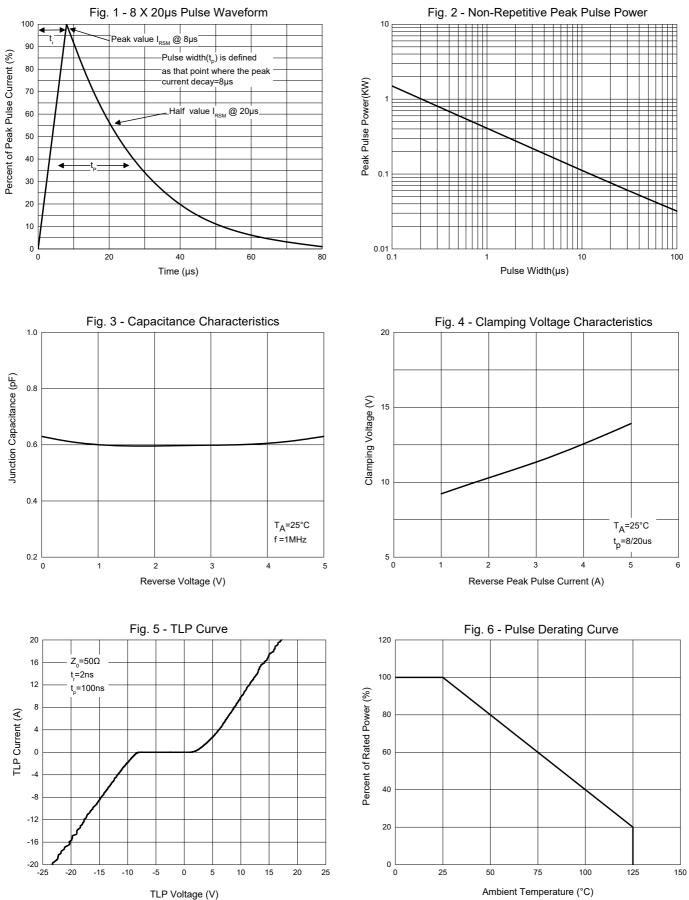
Note :

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

2.TLP parameter: Z0=50Ω, 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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