

Features

- · For Sensitive ESD Protection
- · Low Leakage Current
- Ultra Low Clamping Voltage
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

ESD Protection Device

Maximum Ratings

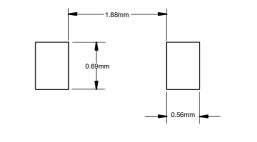
JE004000 4 0/E0D)	Air	±30KV	
IEC61000-4-2(ESD)	Contact	±30KV	
Peak Pulse Power (8/20µs)	PPK	300W	
Peak Pulse Current (8/20µs)(Note 2)	IPP	7A	
Operating Junction Temperature Range	ТJ	-40°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

SOD-323

DIMENSIONS					
DIM INCHE		HES	MM		NOTE
ווועו	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	





Marking Information



Internal Structure



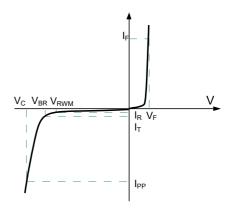
^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
V_{RWM}	Peak Reverse Working Voltage		
I _R	Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _⊺		
I _T	Test Current		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ I _{PP}		
P _{PP}	Peak Pulse Power		
CJ	Junction Capacitance		
I _F	Forward Current		
V _F	Forward Voltage @ I _F		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	25			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.5	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		27	32	V
Clamping Voltage ^{Note1}	V_{C}	I _{PP} =5A, t _P =8/20μs		34	42	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =7A, t _P =8/20μs		37	50	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.36		Ω
Junction Capacitance	Сл	V _R =0V, f=1MHz		36	50	pF

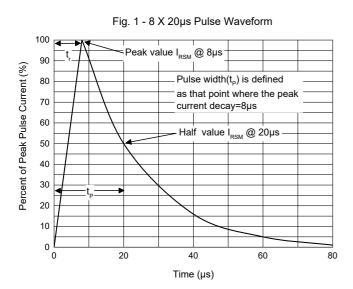
Note:

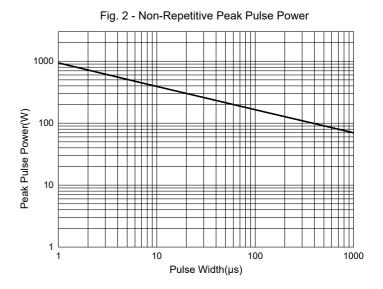
^{1.} Non-repetitive current pulse, according to IEC61000-4-5.

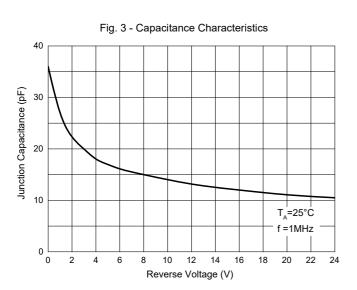
^{2.}TLP parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

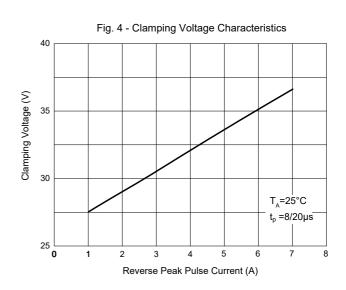


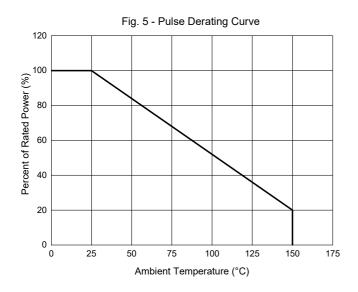
Curve Characteristics

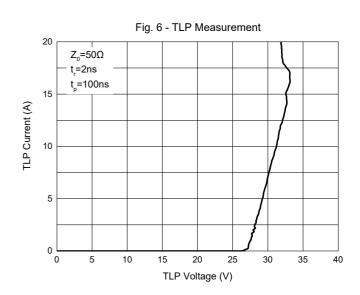














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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Rev.4-1-03012023 4/4 MCCSEMI.COM