

Features

- Bi-Directional ESD Protection of Two Lines
- Low Reverse Stand-Off Voltage
- Low Reverse Clamping Voltage

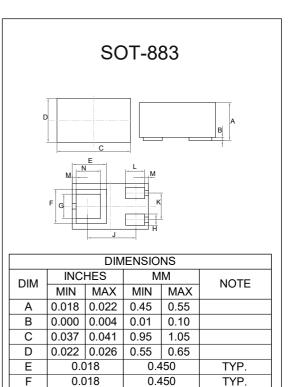
ESDLC5V0BM

- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C





0.27 0.37

0.10 0.20

0.635

0.30 0.40

0.050

0.27 0.37

0.30

0.20

TYP.

TYP.

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0.011 0.015

0.004 0.008

0.025

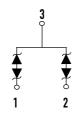
0.012 0.016

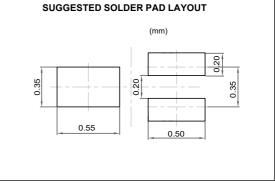
0.008 0.012

0.002

0.011 0.015

Internal Structure





MCC Part Number Device Marking

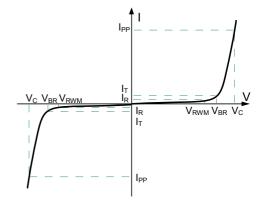
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IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
JESD22-A114-B(ESD)	Human Body Machine	16KV 0.4KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20us)	P _{PK}	50W



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

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I _T		
IT	Test Current		
С	Capacitance $@V_R=0$ and f =1MHz		



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	5.8		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	μA
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs			10	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		10		pF



Curve Characteristics

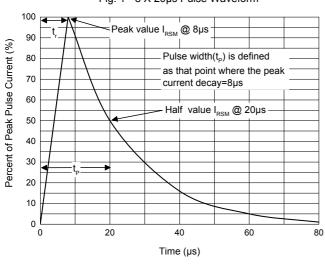


Fig. 1 - 8 X 20µs Pulse Waveform

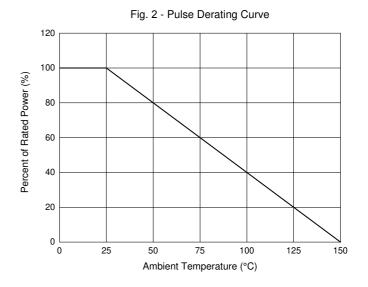


Fig. 3 - Capacitance Characteristics

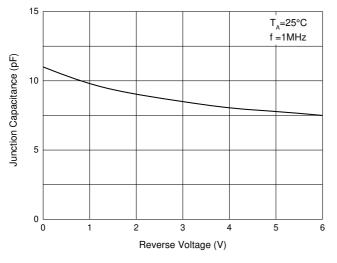
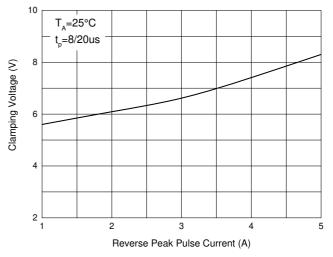


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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