

Features

- Low Reverse Stand.Off Voltage
- · Low Leakage Current
- For Space Saving Application
- · Fast Response, Response Time Less than 1ns
- · 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)

Maximum Ratings

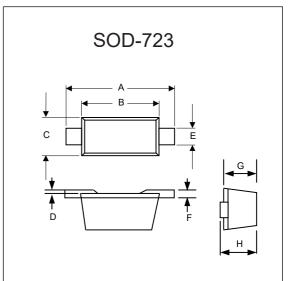
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1250°C/W Junction to Ambient

MCC Part Number	Device Marking
ESDLC5V0D7B	Н

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
JESD22-A114-B(ESD)	Machine Human Body	±0.4KV ±16KV
Power Dissipation	P_{D}	100mW

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

ESD Protection Device



DIMENSIONS					
DIM INCHES		HES	MM		NOTE
וווטו	MIN	MAX	MIN	MAX	NOTE
Α	0.051	0.059	1.30	1.50	
В	0.035	0.043	0.90	1.10	
С	0.022	0.026	0.55	0.65	
D	0.001	0.003	0.01	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.023	0.52	0.58	
Н	0.021	0.026	0.53	0.65	

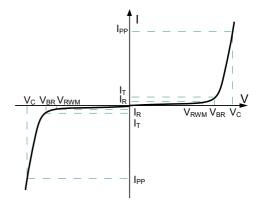
Internal Structure





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

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



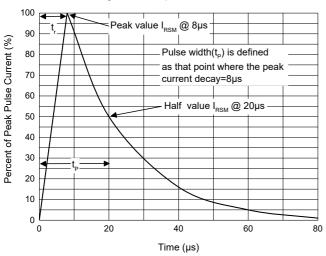
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

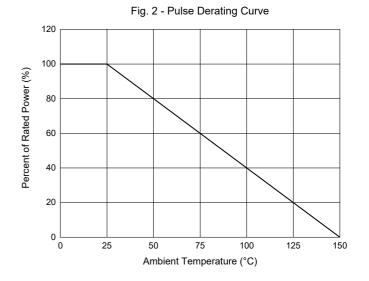
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5.8		7.8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	μA
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20µs			12.5	V
Junction Capacitance	С	$V_R = 0V$, $f = 1MHz$		12		pF



Curve Characteristics

Fig. 1 - 8 X 20µs Pulse Waveform







Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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