

Features

- · For Sensitive ESD Protection
- · Excellent Clamping Capability
- · Low Leakage
- · 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
- Maximum Thermal Resistance: 833°C/W Junction to Ambient

MCC Part Number	Device Marking	
ESD5V0M5	52	

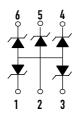
IEC61000-4-2(ESD)	Air Contact	±15KV ±15KV
JESD22-A114-B(ESD)	Human Body	16KV
Peak Pulse Current(8/20μs)	I _{PP}	8A
Peak Pulse Power (8/20us)	P _{PK}	100W
Power Dissipation ⁽²⁾	P _D	150mW

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

Note 2. Only 1 Diode under Power. For All 4 Diodes under Power, PD Will Be 25%.

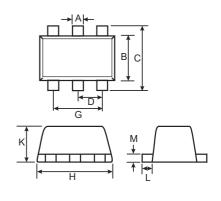
Mounted on FR-4 Board with Min Pad.

Internal Structure



ESD Protection Device





	DIMENSIONS					
DIM	INC	HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.006	0.011	0.15	0.30		
В	0.043	0.051	1.10	1.30		
С	0.059	0.067	1.50	1.70		
D	0.020		20 0.50		TYP.	
G	0.035	0.043	0.90	1.10		
Н	0.059	0.067	1.50	1.70		
K	0.020	0.023	0.52	0.60		
L	0.004	0.011	0.10	0.30		
М	0.004	0.007	0.10	0.18		

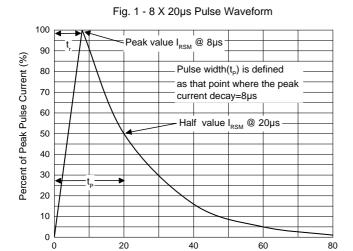


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	6		7.2	V
Reverse Leakage Current	I _R	V _{RWM} =5V			5	μA
Forward Voltage	V _F	I _F =10mA			0.9	V
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs			10.5	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20µs			13.5	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		32		pF



Curve Characteristics

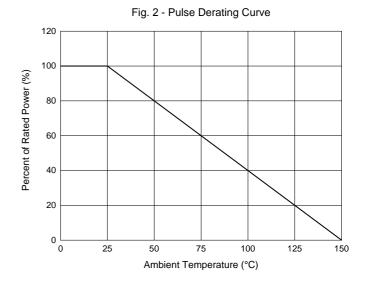


40

Time (µs)

60

20





Ordering Information

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

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