

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 Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

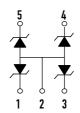
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Maximum Thermal Resistance: 833°C/W Junction to Ambient

MCC Part Number	Device Marking		
ESD5V0J4	12		

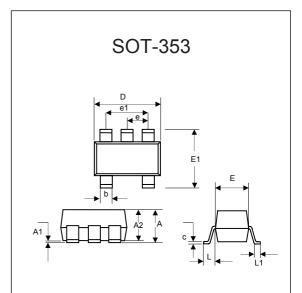
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
JESD22-A114-B(ESD)	Human Body Machine	16KV 0.4KV	
Peak Pulse Current(8/20μs)	I _{PP}	5A	
Peak Pulse Power (8/20us)	P _{PK}	200W	
Power Dissipation ⁽¹⁾	P _D	150mW	

Note 1: 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 INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.035	0.043	0.90	1.10	
A1		0.004		0.10	
A2	0.035	0.039	0.90	1.00	
b	0.006	0.014	0.15	0.35	
С	0.003	0.006	0.08	0.15	
D	0.790	0.087	2.00	2.20	
E	0.045	0.053	1.15	1.35	
E1	0.085	0.096	2.15	2.45	
е	0.026		0.650		TYP.
e1	0.047	0.055	1.20	1.40	
L	0.021		0.525		TYP.
L1	0.010	0.018	0.26	0.46	

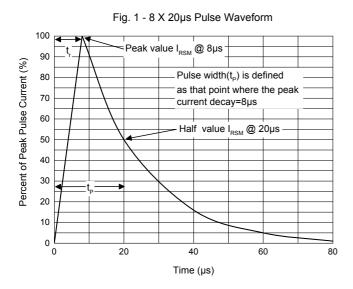


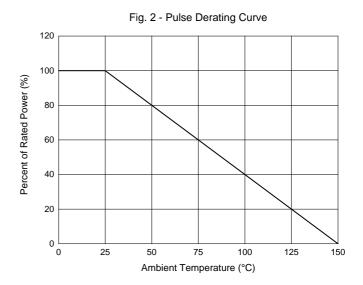
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

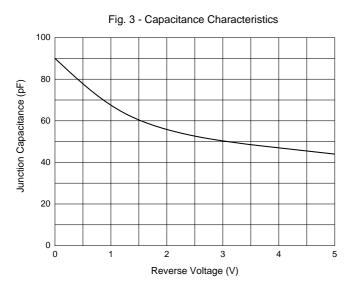
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6		7.2	V
Reverse Leakage Current	I _R	V _{RWM} =5V			2	μA
Forward Voltage	V _F	I _F =200mA			1.25	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs			12.5	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		90		pF



Curve Characteristics









Ordering Information

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

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

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