

Features

- · Uni-Directional ESD Protection of Four Lines
- · Low Reverse Stand-Off Voltage
- · Low Reverse Clamping Voltage
- Low Leakage Current
- · 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)

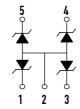
Maximum Ratings

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

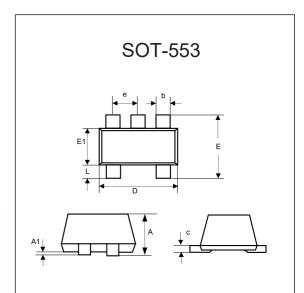
MCC Part Number	Device Marking
ESDLC3V0L4	5P

IEC61000-4-2(ESD)	Air Contact	±9KV ±8KV	
JESD22-A114-B(ESD)	Human Body Machine	15KV 0.4KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
Peak Pulse Current(8/20μs)	I _{PP}	2.5A	
Peak Pulse Power (8/20us)	P _{PK}	20W	

Internal Structure



ESD Protection Device

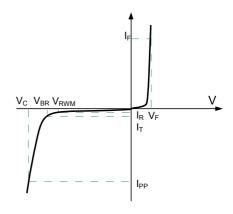


	DIMENSIONS					
DIM	INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.021	0.024	0.525	0.60		
A1	0.000	0.002	0.00	0.05		
е	0.018	0.022	0.45	0.55		
С	0.004	0.006	0.09	0.16		
D	0.059	0.067	1.50	1.70		
b	0.007	0.011	0.17	0.27		
E1	0.040	0.051	1.10	1.30		
Е	0.059	0.067	1.50	1.70		
L	0.004	0.012	0.10	0.30		



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 _T		
lτ	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		

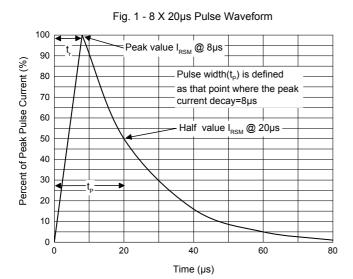


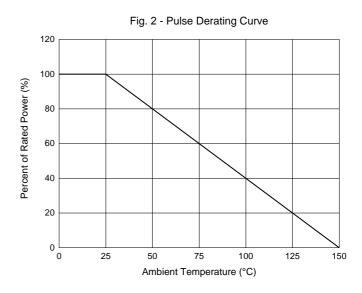
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

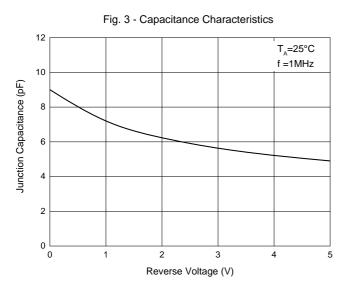
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5		5.9	V
Reverse Leakage Current	I _R	V _{RWM} =3V			1	μA
Forward Voltage	V _F	I _F =10mA			0.9	V
Clamping Voltage	V _C	I _{PP} =2.5A, t _P =8/20μs			8	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		9		pF

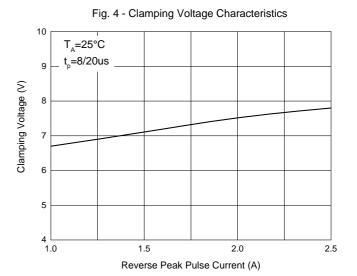


Curve Characteristics











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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