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ESD5V0LP

Features

- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- For space saving application
- Fast response, response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

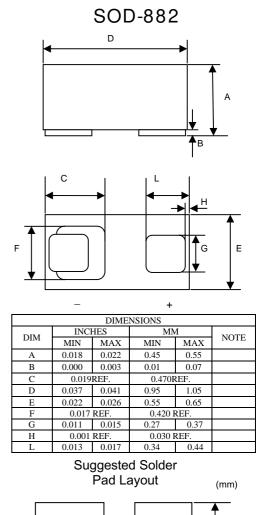
- Operating Junction &StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance: 1250°C/W Junction To Ambient

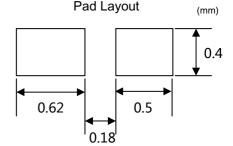
Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		± 30	10.7
	Contact		± 30	KV
ESD Voltage per human		16	K۷	
Power Dissipation	Pd	100	mw	



Internal Structure

5.0 Volts ESD Protection Device

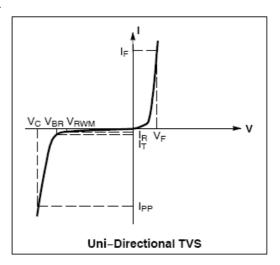






ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted`

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
Vc	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			
P _{pk}	Peak Power Dissipation			
С	Max. Capacitance @V _R =0 and f =1MHz			



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

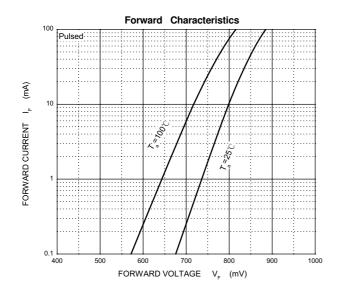
Device	Device Marking	V _{RWM} (V)	I _R (μ A) @ V _{RWM}	V _{BR} (V)		Ι _τ	P _{pk} (W) (8x20 us)	I _{PP} (A)	V _c (V) @Max I _{PP}	C (pF)
	Warking	Max	Max	Min	Max	mA	Тур	Max	Max	Тур
ESD5V0LP	В	5.0	1.0	6.2	7.3	1.0	107	8.7	12.3	65

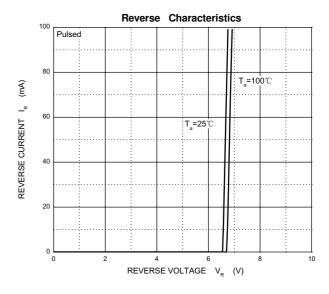
Note: 1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

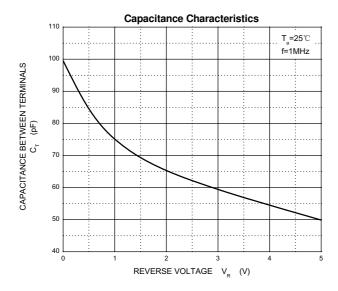


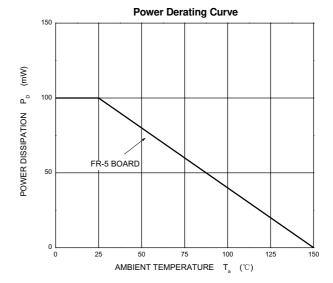
Typical Characteristics

Micro Commercial Components











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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