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Micro Commercial Components

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SD15C SD24C

Features

- Halogen free available upon request by adding suffix "-HF"
- Protects one I/O or power line
- Low clamping voltage
- Low leakage current
- Solid-state silicon avalanche technology
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

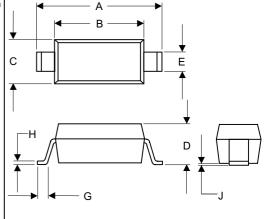
15~24Volts ESD Protection Devices

SOD-323

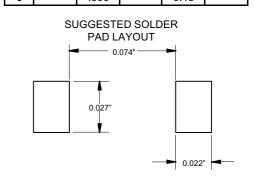
Maximum Ratings

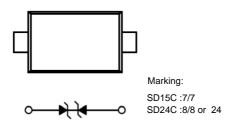
Operating Junction: -55°C to +125°C
 StorageTemperature: -55°C to +150°C

Parameter	Symbol	Limits	unit
ESD Voltage(HBM waveform per IEC 6100-4-2)		30	K۷
Peak Power Dissipation (8/20us)	P_{pk}	350	W



DIMENSIONS					
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	







SD15C TVS for 15V Lines

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse stand-off voltage	V_{RWM}			15	V	
Reverse breakdown voltage	V _{(BR)R}	16.7			V	I _R =1mA
Clamping voltage	V _C			30 40	V	I _{PP} =5A,t _p =8/20μs I _{PP} =12A,t _p =8/20μs
Reverse leakage current	I _R			1	μA	V _{RWM} =15V
Junction Capacitance	C _J			75	pF	V _R =0V,f=1MHz

SD24C TVS for 24V Lines

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse stand-off voltage	V _{RWM}			24	V	
Reverse breakdown voltage	V _{(BR)R}	26.7			V	I _R =1mA
Clamping voltage	V _C			40 62	V	I _{PP} =1A,t _p =8/20μs I _{PP} =8A,t _p =8/20μs
Reverse leakage current	I _R			1	μΑ	V _{RWM} =24V
Junction Capacitance	CJ			50	pF	V _R =0V,f=1MHz



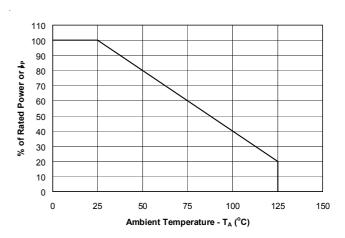
TYPICAL CHARACTERISTICS @ Ta=25 $^{\circ}$ C unless otherwise specified

100

1000

Non-Repetitive Peak Pulse Power vs. Pulse Time 10 0.1 0.1

Power Derating Curve



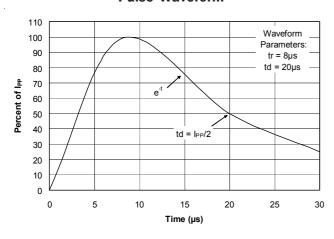
Pulse Waveform

10

Pulse Duration - tp (µs)

1

0.01





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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