

RoHS Compliant Product

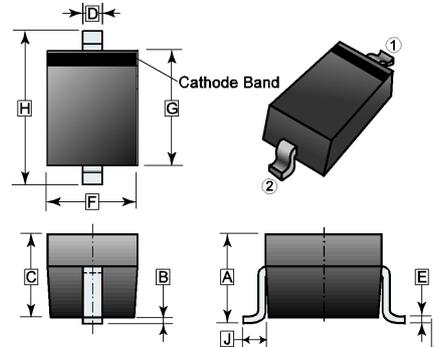
A suffix of "-C" specifies halogen and lead-free

DESCRIPTION

The SD24-C is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD (electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

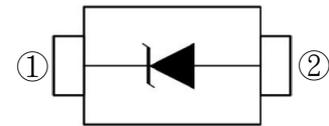
SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		F	1.15	1.45
B	0.20 REF.		G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475 REF.	
E	0.080	0.20			

FEATURES

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- 350 Watts Peak Pulse Power per (tp=8/20µs)
- Protects One I/O Line (Uni-directional)
- Low Clamping Voltage
- Low Leakage Current



Uni-directional

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor Based Equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

MARKING



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
SD24-C	Lead (Pb)-free and Halogen-free

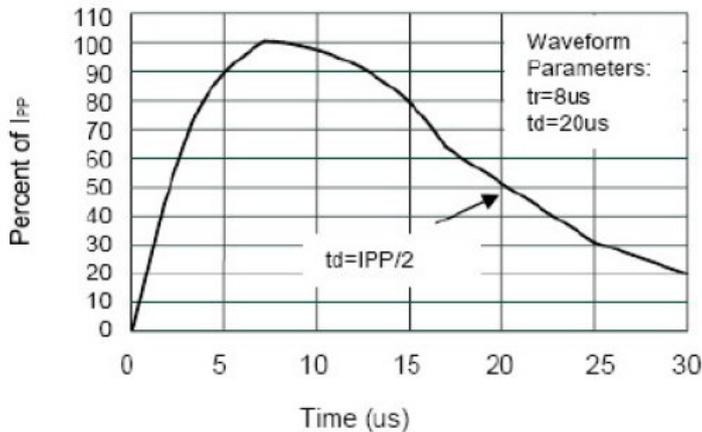
ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Ratings	Unit
ESD Voltage(IEC61000-4-2)	Air Model	V_{ESD}	± 15	kV
	Contact Model		± 8	
Peak Pulse Power @ $t_p=8/20\mu s$ pulse waveform		P_{PP}	350	W
Maximum Lead Solder Temperature @10 second duration		T_L	260	$^{\circ}C$
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55~150	$^{\circ}C$

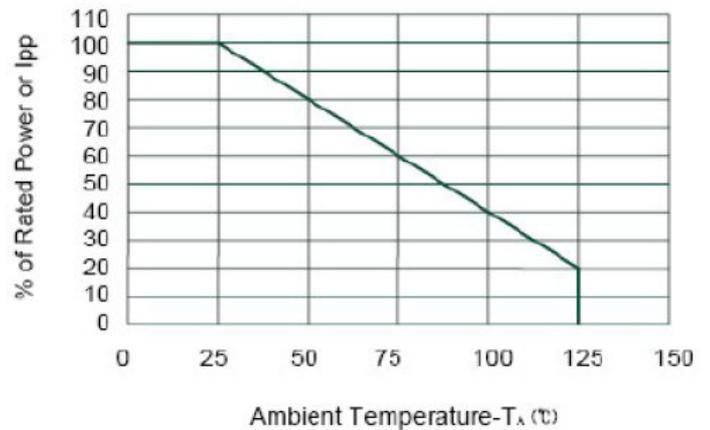
ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}C$ unless otherwise specified)

Part Number	V_{RWM} (V)	V_B (V)	I_T (mA)	$V_C @1A$ (V)	$V_C @7A$ (V)	I_R (μA)	C_T (pF)
	Max.	Min.		Max.	Max.	Max.	Max.
SD24-C	24	26.7	1	43	52	1	80

ELECTRICAL CHARACTERISTICS CURVE



Pulse Waveform



Power Derating Curve