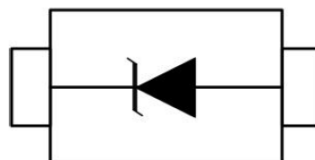
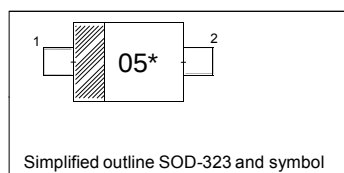


Transient Voltage Suppressors for ESD Protection

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- Small Body Outline Dimensions
- 350 Watts peak pulse power ($t_p = 8/20\mu s$)
- Transient protection for data lines to
IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 24A (8/20 μs)
- Small package for use in portable electronics
- Suitable replacement for MLV's in ESD protection applications
- Protects one I/O or power line
- Low clamping voltage
- Working voltages: 5V and 12V
- Low leakage current
- Solid-state silicon-avalanche technology
- We declare that the material of product compliance with RoHS requirements.

Applications

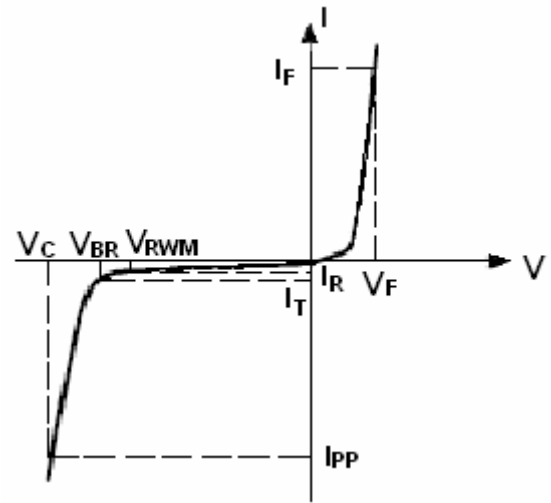
Cellular Phone Handsets and Accessories
Microprocessor based equipment
Personal Digital Assistants(PDA'S)
Notebooks, Desktops, and Servers
Portable Instrumentation
Pagers Peripherals

Absolute Ratings ($T_{amb}=25^{\circ}C$)

Symbol	Parameter	Value	Units
P_{PK}	Peak Pulse Power ($t_p = 8/20\mu s$)	350	W
V_{ESD}	ESD Voltage(HBM Waveform per IEC 61000-4-2)	30	kV
T_L	Maximum lead temperature for soldering during 10s	260	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$
T_J	Maximum junction temperature	-55 to +125	$^{\circ}C$

Electrical Parameter

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T
I_F	Forward Current
V_F	Forward Voltage @ I_F

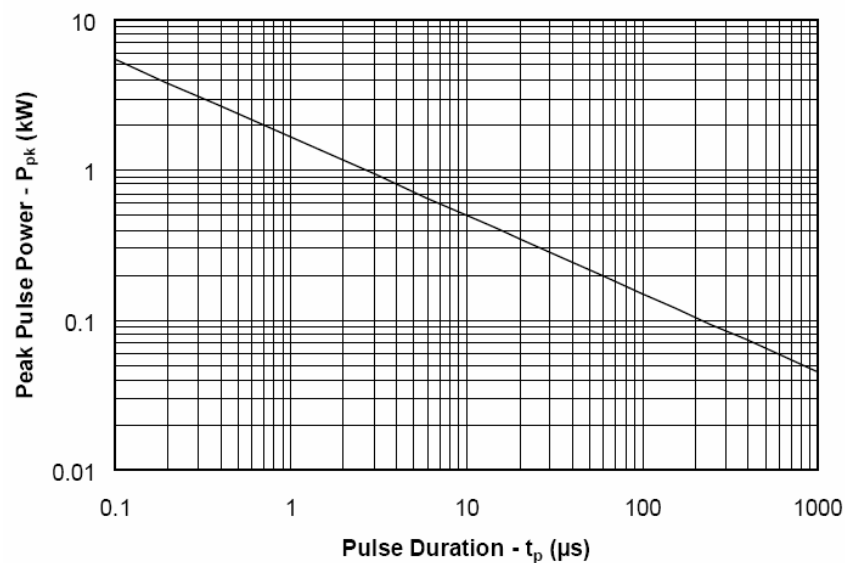


Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. $V_F = 0.9V$ at $I_F = 10mA$

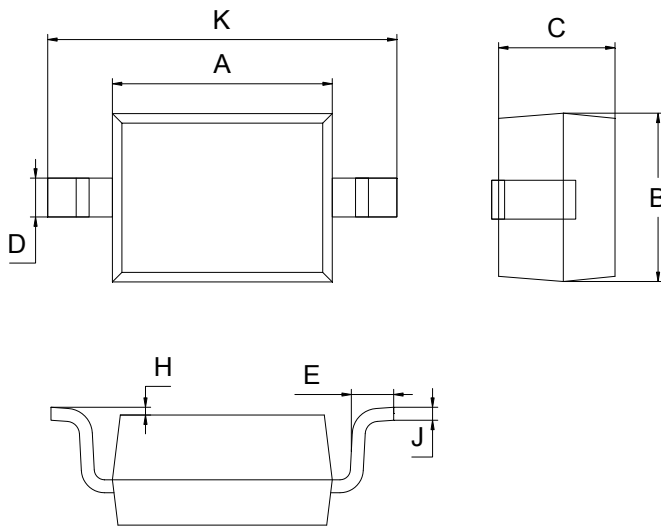
Device	V_{RWM} (V)	I_R (uA) @ $V_{RWM}=5V$	V_{BR} (V)@ $I_T=1mA$	V_C (V) @ $I_{PP}=5A$ $t_p=8/20\mu s$	V_C (V) @ $I_{PP}=24A$ $t_p=8/20\mu s$	I_{PP} (A) $t_p=8/20\mu s$	C (pF)
	Max	Max	Min	Typ	Max	Max	Typ
ESD3Z5.0	5.0	10	6.0	9.8	14.5	24	350

Typical Performance Characteristics (T A =25°C unless otherwise Specified)



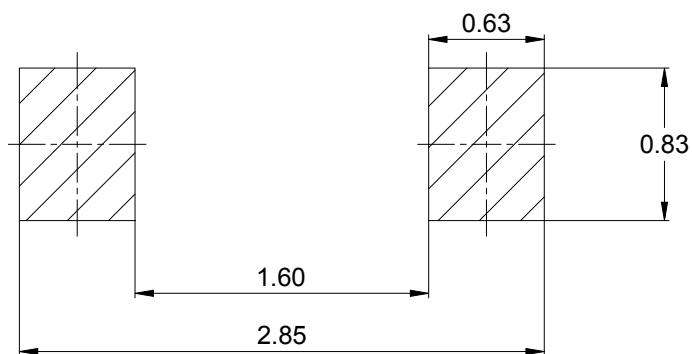
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.1
J	0.05	0.15
K	2.55	2.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm