

FEATURES

- -IEC61000-4-2 (ESD)
 $\pm 30\text{kV}$ (contact)
 $\pm 30\text{kV}$ (air)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- Peak power dissipation: 60W (8/20 μs)
- Protects one I/O line
- Low clamping voltage
- Working voltages : 3.3V
- Low leakage current

APPLICATIONS

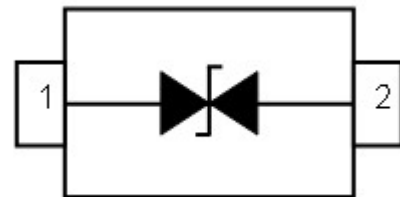
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- Networking and Telecom
- Serial and Parallel Ports

MARKING: 3C ∞ or 2C

SOD-523 Flat Lead



ELECTRICAL SYMBOL



MACHANICAL DATA

- SOD-523 package
- Flammability Rating: UL 94V-0
- Packaging: Tape and Reel
- High temperature soldering guaranteed: 260°C / 10s
- Reel size: 7 inch

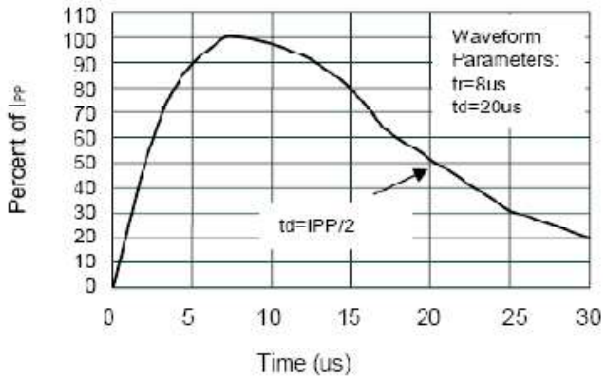
ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Air)	± 30	kV
	ESD per IEC 61000-4-2 (Contact)	± 30	
P_{PP}	Peak Pulse Power (8/20 μ s)	60	W
T_{OPT}	Operating Temperature	-40~150	$^{\circ}$ C
T_{STG}	Storage Temperature	-40~150	$^{\circ}$ C

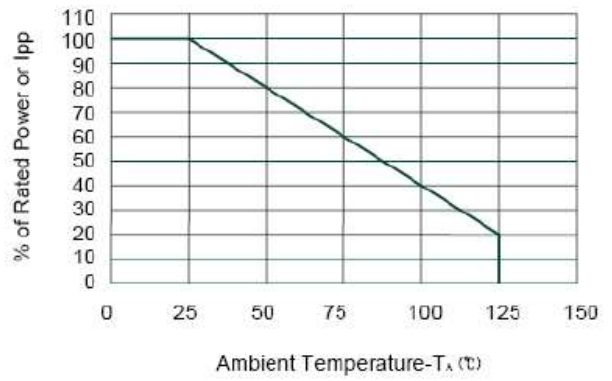
ELECTRICAL CHARACTERISTICS (Tamb=25 $^{\circ}$ C)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				3.3	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1mA$	3.6			V
I_R	Reverse Leakage Current	$V_{RWM} = 3.3V$			1.0	μ A
V_C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20\mu s$			8.0	V
V_C	Clamping Voltage	$I_{PPmax} = 5A, t_p = 8/20\mu s$			12.0	V
V_{CTLTP}	TLP Clamping Voltage	$I_{PP} = 16A$ IEC61000-4-2 Level 4 equivalent ($\pm 8kV$ Contact, $\pm 15kV$ Air)		9		V
C_J	Junction Capacitance	$V_R = 0V, f = 1MHz$			16.5	pF

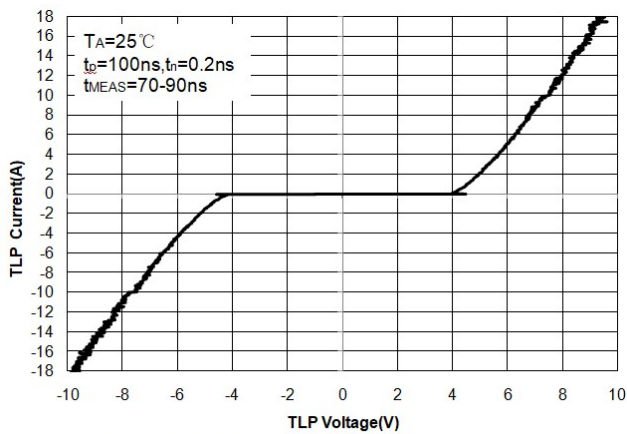
ELECTRICAL CHARACTERISTICS CURVE



Pulse Waveform

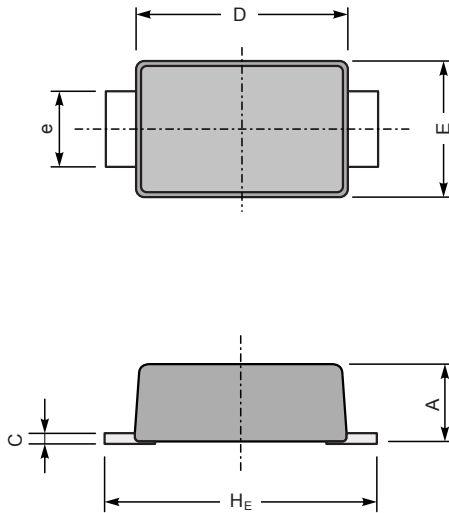


Power Derating Curve



Transmission Line Pulsing (TLP) Measurement

Flat Lead SOD-523 Package Outline



SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.50	0.70	0.020	0.028
C		0.20		0.008
D	1.10	1.30	0.043	0.051
E	0.70	0.90	0.028	0.035
e	0.25	0.35	0.010	0.014
H _E	1.50	1.70	0.059	0.067

Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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