

Bidirectional TVS Diode Array

DESCRIPTION

The SMxxC Series 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 series 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).

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 two bidirectional lines
- ♦ Low clamping voltage
- ♦ Working voltages: 3.3V to 36V
- ♦ Low leakage current

MACHANICAL DATA

- ♦ SOT-23 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- ♦ Reel size: 7 inch
- ♦MSL 1

ORDERING INFORMATION

Device: SMxxCPackage: SOT-23Material: Halogen free

♦ Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

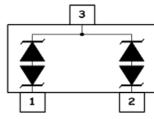
APPLICATIONS

- ♦ 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.

PACKAGE OUTLINE

♦ Peripherals

PIN CONFIGURATION







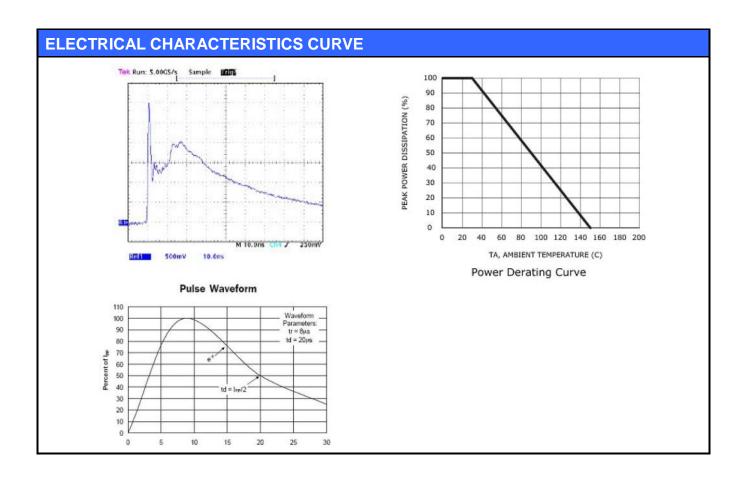
ABSOLUTE MAXIMUM RATING									
Symbol	Parameter	Value	Units						
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV						
P _{PP}	Peak Pulse Power (8/20μs)	350	W						
T _{OPT}	Operating Temperature	-55/+150	°C						
T _{STG}	Storage Temperature	-55/+150	°C						
TL	Lead Soldering Temperature	260 (10 sec.)	°C						

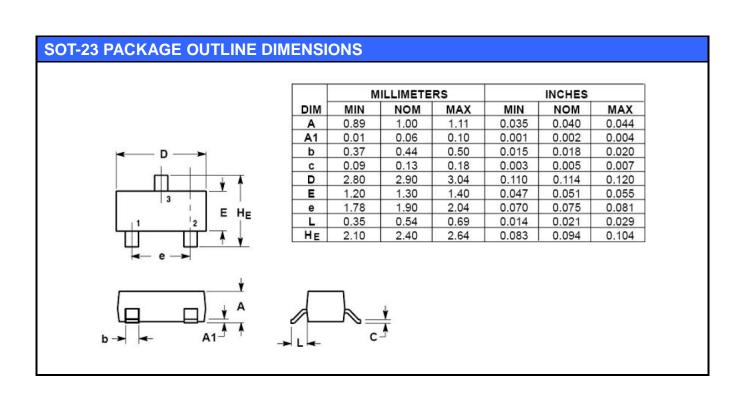
ELECTRICAL CHARACTERISTICS (Tamb=25°C)												
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (V) (max.)	V _C (V) (max.) (@A)		I _R (μΑ) (max.)	C _J (pF) (max.)			
SM03C	C03	3.3	4.0	1	7.5	13.0	20	40	450			
SM05C	C05	5.0	6.0	1	9.8	18.0	17	10	200			
SM08C	C08	8.0	8.5	1	13.4	24.0	15	2	120			
SM12C	C12	12.0	13.3	1	19.0	32.0	11	1	75			
SM15C	C15	15.0	16.7	1	24.0	38.0	10	1	68			
SM18C	C18	18.0	20.0	1	29.0	45.0	9	1	57			
SM24C	C24	24.0	26.7	1	43.0	52.0	7	1	50			
SM36C	C36	36.0	40.0	1	60.0	75.0	5	1	35			

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