

Bidirectional TVS Diode Array

DESCRIPTION

The GSMxxC 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).

ORDERING INFORMATION

- ♦Device: GSMxxC
- ♦Package: SOT-23
- ♦ Material: Halogen free and RoHS compliant
- ♦Packing: Tape & Reel
- ♦Quantity per reel: 3,000pcs

FEATURES

♦IEC61000-4-2 (ESD) ±30kV (Contact)

±30kV (Air)

- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- $\diamond\,350$ Watts Peak Pulse Power per (tp=8/20 \mu s)
- ♦ Protects two bidirectional lines
- ♦Low clamping voltage
- ♦Working voltages: 3.3V to 36V
- ♦Low leakage current

MACHANICAL DATA

- \diamond SOT-23 package
- ♦ Flammability Rating: UL 94V-0
- \diamond Packaging: Tape and Reel
- ∻High temperature soldering guaranteed: 260℃/10s
- ♦Reel size: 7 inch
- ∻MSL 1

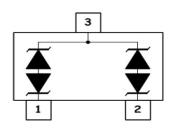
APPLICATIONS

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

PACKAGE OUTLINE



PIN CONFIGURATION





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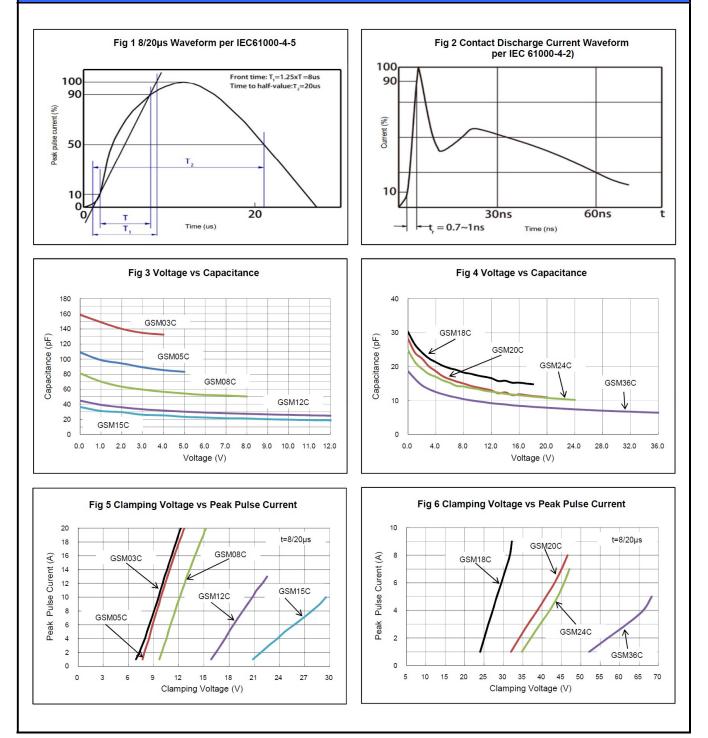
ABSOLUTE MAXIMUM RATING								
Symbol	Parameter	Value	Units					
V _{ESD}	ESD per IEC 61000-4-2 (Contact)	±30	kV					
	ESD per IEC 61000-4-2 (Air)	±30						
P _{PP}	Peak Pulse Power (8/20µs)	350	W					
T _{OPT}	Operating Temperature	-55/+150	°C					
T _{STG}	Storage Temperature	-55/+150	°C					
TL	Lead Soldering Temperature	260 (10 sec.)	°C					

ELECTRICAL CHARACTERISTICS (Tamb=25°C)											
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I⊤ (mA)	V _C @1A (V) (max.)		/c /) (@A)	Ι _R (μΑ) (max.)	C」 (pF) (max.)		
GSM03C	C03	3.3	4.0	1	7.5	16.0	20	40	450		
GSM05C	C05	5.0	6.0	1	9.8	18.0	17	10	200		
GSM08C	C08	8.0	8.5	1	13.4	24.0	15	2	120		
GSM12C	C12	12.0	13.3	1	19.0	32.0	11	1	75		
GSM15C	C15	15.0	16.7	1	24.0	38.0	10	1	68		
GSM18C	C18	18.0	20.0	1	29.0	45.0	9	1	57		
GSM20C	C20	20.0	22.3	1	35.0	50.0	8	1	52		
GSM24C	C24	24.0	26.7	1	43.0	52.0	7	1	50		
GSM36C	C36	36.0	40.0	1	60.0	75.0	4.5	1	35		



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ELECTRICAL CHARACTERISTICS CURVE





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SOT-23 PACKAGE OUTLINE DIMENSIONS

