

GSMxxOC Series

Bidirectional TVS Diode Array

DESCRIPTION

The GSMxxOC Series is designed for applications transient overvoltage protection requiring capability. They are intended for use in voltage and ESD sensitive equipment such as computers, business machines, communication printers, systems, medical equipment and other These devices are ideal for applications. 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) ±8kV (Contact), ±15kV (Air)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦Protects two bidirectional lines
- ♦Low clamping voltage
- ♦ Working voltages : 5.0V,12V
- ♦Low leakage current

MACHANICAL DATA

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

ORDERING INFORMATION

Device: GSMxxOCPackage: SOT-23Material: Halogen freePacking: Tape & Reel

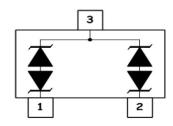
♦ Quantity per reel: 3,000pcs

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.

PIN CONFIGURATION

PACKAGE OUTLINE







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ABSOLUTE MAXIMUM RATING					
Symbol	Parameter	Value	Units		
V _{ESD}	ESD per IEC 61000-4-2 (Contact)	±20	14.7		
	ESD per IEC 61000-4-2 (Air)	±30	kV		
P_PP	Peak Pulse Power (8/20µs)	130	W		
T _{OPT}	Operating Temperature	-55/+150	°C		
T _{STG}	Storage Temperature	-55/+150	°C		

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B (V)	I _T (mA)	V _C @1A (V)	V (V		I _R (μΑ)	C _J (pF)
		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
GSM05OC	CO05	5.0	5.6	1	8.5	16.0	8	1	15
GSM12OC	CO12	12.0	13.3	1	19.0	26.0	5	0.2	15

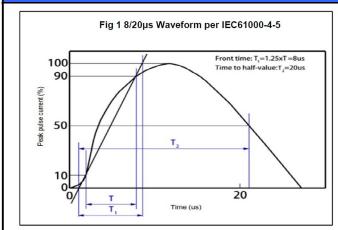
REV: B 2 of 3 www.gt-semi.com

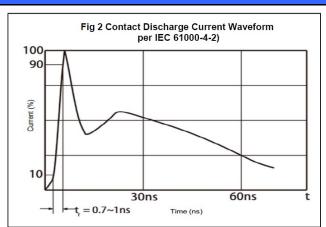


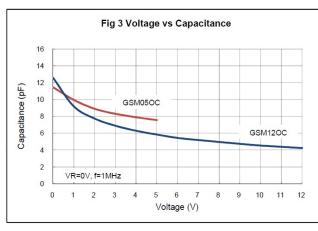
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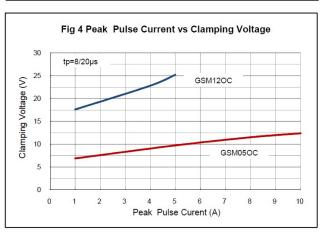
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ELECTRICAL CHARACTERISTICS CURVE

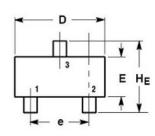








SOT-23 PACKAGE OUTLINE DIMENSIONS



DIM	MILLIMETERS			INCHES			
	MIN	NOM	MAX	MIN	NOM	MAX	
Α	0.89	1.00	1.11	0.035	0.040	0.044	
A1	0.01	0.06	0.10	0.001	0.002	0.004	
b	0.37	0.44	0.50	0.015	0.018	0.020	
С	0.09	0.13	0.18	0.003	0.005	0.007	
D	2.80	2.90	3.04	0.110	0.114	0.120	
E	1.20	1.30	1.40	0.047	0.051	0.055	
е	1.78	1.90	2.04	0.070	0.075	0.081	
L	0.35	0.54	0.69	0.014	0.021	0.029	
HE	2.10	2.40	2.64	0.083	0.094	0.104	

