

GSMxx Series

TVS Diode Array

DESCRIPTION

The GSMxx 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

- \Rightarrow 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 one bidirectional line or two unidirectional lines
- ♦Working voltages : 3.3V to 36V
- ♦Low leakage current

MACHANICAL DATA

- ♦SOT-23 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- \diamond High temperature soldering guaranted:260 $^{\circ}$ C /10s
- ♦Reel size: 7 inch
- ♦MSL 1

ORDERING INFORMATION

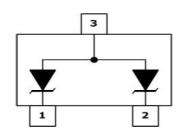
Device: GSMxxPackage: SOT-23Material: Halogen freePacking: Tape & Reel

♦ 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.
- ♦ Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE





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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						
T _L	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.)		/c /) (@A)	I _R (μΑ) (max.)	C _J (pF) (max.)			
GSM03	M03	3.3	4	1	7.0	14	20	40	450			
GSM05	M05	5	6	1	9.8	18	17	10	300			
GSM08	M08	8	8.5	1	13.4	24	15	2	240			
GSM12	M12	12	13.3	1	19	32	11	1	130			
GSM15	M15	15	16.7	1	24	38	10	1	120			
GSM18	M18	18	20	1	29	45	9	1	100			
GSM20	M20	20	22.3	1	35	50	8	1	90			
GSM24	M24	24	26.7	1	43	52	7	1	80			
GSM36	M36	36	40	1	60	75	5	1	60			



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