



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 one bidirectional line or two unidirectional 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 guaranteed: 260 °C /10s
- ✧ Reel size: 7 inch
- ✧ MSL 1

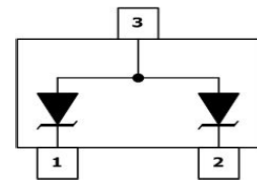
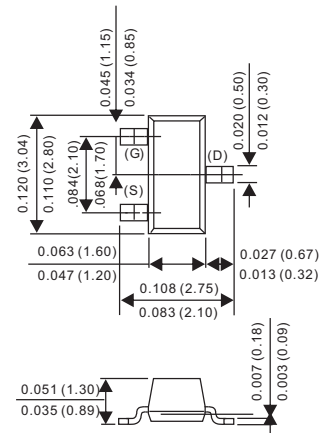
APPLICATIONS

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

ORDERING INFORMATION

- ✧ Device: GSMxx
- ✧ Package: SOT-23
- ✧ Material: Halogen free
- ✧ Packing: Tape & Reel
- ✧ Quantity per reel: 3,000pcs

SOT-23



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATING

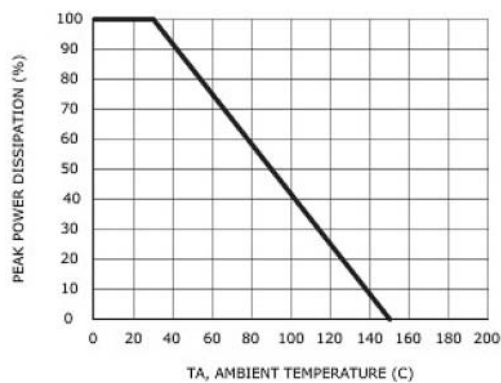
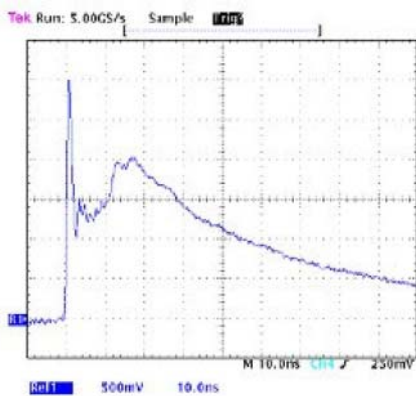
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	kV
	ESD per IEC 61000-4-2 (Contact)	±8	
P _{PP}	Peak Pulse Power (8/20µs)	350	W
T _{OPT}	Operating Temperature	-55/+150	°C
T _{STG}	Storage Temperature	-55/+150	°C
T _L	Lead Soldering Temperature	260 (10 sec.)	°C



ELECTRICAL CHARACTERISTICS (Tamb=25°C)

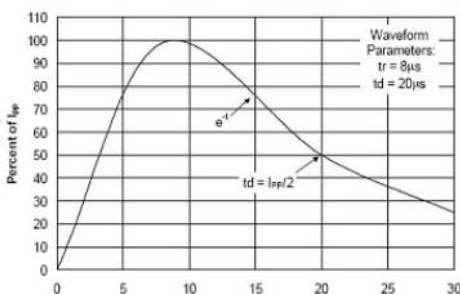
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _{C@1A} (V) (max.)	V _C (V) (@A) (max.)		I _R (μA) (max.)	C _J (pF) (max.)
GSM03	M03	3.3	4	1	7.0	14	20	40	450
GSM05	M05	5	6	1	9.8	18	17	10	300
GSM08	M08	8	8.5	1	13.4	24	15	2	240
GSM12	M12	12	13.3	1	19	32	11	1	130
GSM15	M15	15	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

Typical Characteristics



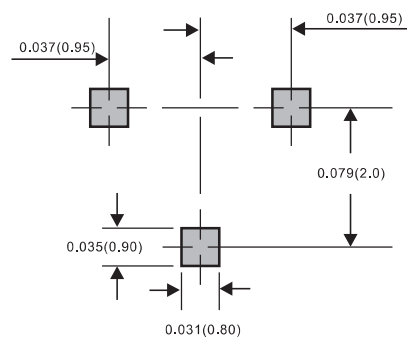
Power Derating Curve

Pulse Waveform



Suggested solder pad layout

SOT-23



Dimensions in inches and (millimeters)

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