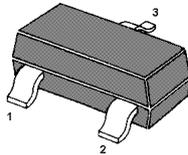
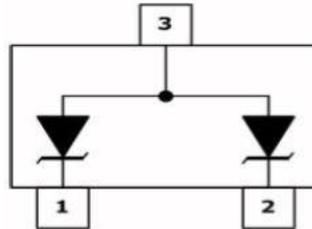


## ESD Protection Diode

SOT-23



MARKING : 24C


**FEATURES**

- IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- 300 Watts Peak Pulse Power per (tp=8/20 $\mu\text{s}$ )
- Protects one bidirectional line or two unidirectional lines
- Low clamping voltage
- Working voltages : 24V
- Low leakage current

**APPLICATIONS**

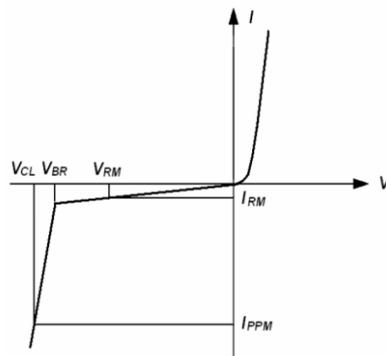
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports.
- Peripherals

**ABSOLUTE RATINGS (Ta = 25°C)**

Parameter	Symbol	Limits	Unit
Peak Pulse Power (tp = 8/20 $\mu\text{s}$ )	PPP	300	W
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C
Operating Temperature Range	Top	-40 ~ +125	°C
Maximum junction temperature	Tj	150	°C
Electrostatic discharge	ESD		kV
IEC61000-4-2 air discharge		$\pm 30$	
IEC61000-4-2 contact discharge		$\pm 30$	

**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)**

Symbol	Parameter
V <sub>RM</sub>	Stand-off voltage
V <sub>BR</sub>	Breakdown voltage
V <sub>CL</sub>	Clamping voltage
I <sub>RM</sub>	Leakage current
I <sub>PPM</sub>	Peak pulse current

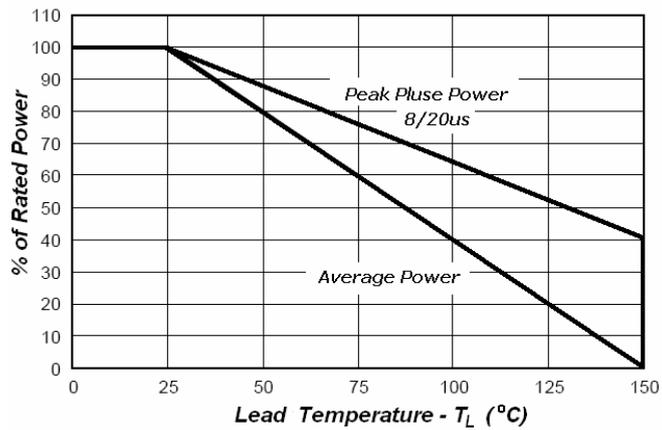
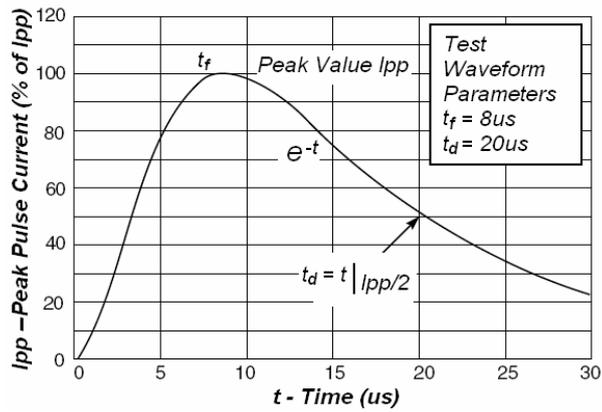
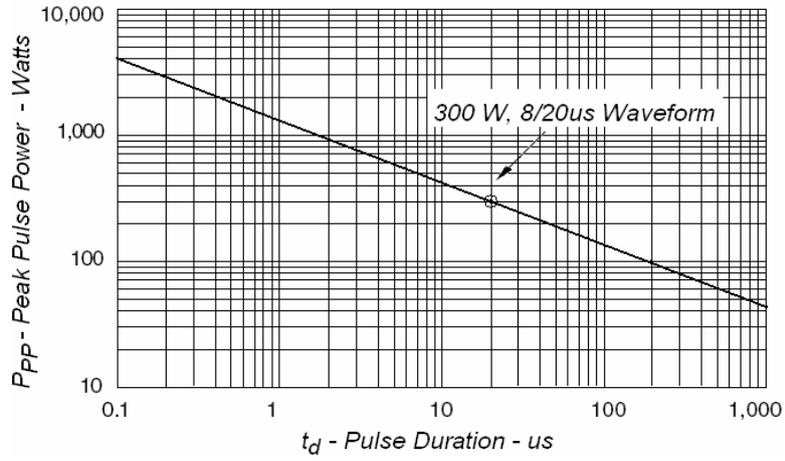


**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)**

DEVICE	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C@5A</sub> (V) (max.)	V <sub>C</sub> (V) (max.) (@A)	I <sub>R</sub> (μA) (max.)	C <sub>T</sub> (pF) (max.)
GSOT24C	24	26.7	1	43	48/8	1	90

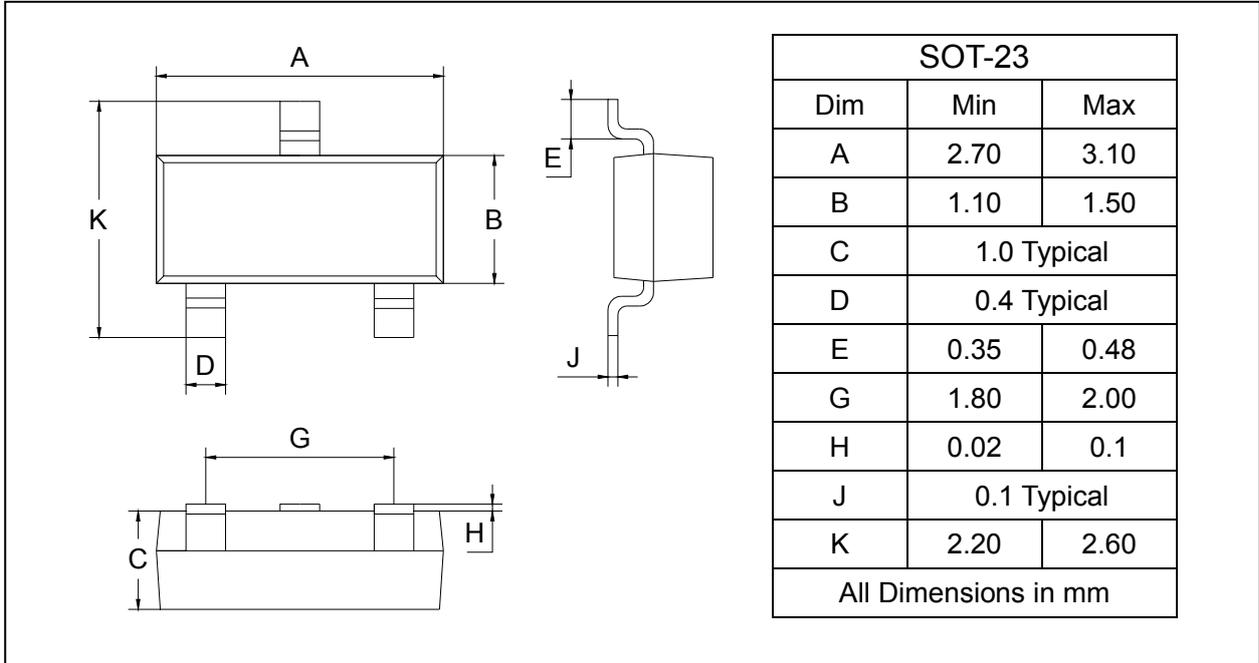
1. 8/20 waveform used.

ELECTRICAL CHARACTERISTICS CURVE

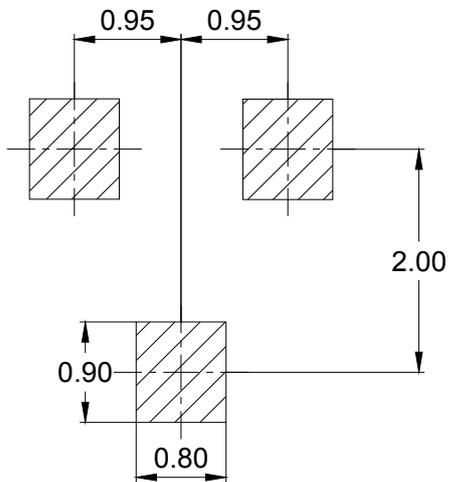


Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm