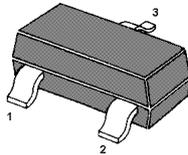
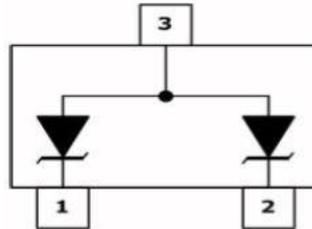


ESD Protection Diode
SOT-23

MARKING : 36C

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 μs)
- Protects one bidirectional line or two unidirectional lines
- Low clamping voltage
- Working voltages : 36V
- Low leakage current

APPLICATIONS

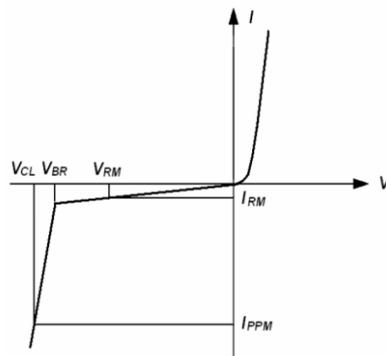
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports.
- Peripherals

ABSOLUTE RATINGS(Ta = 25°C)

| Parameter | Symbol | Limits | Unit |
|--|--------|------------|------|
| Peak Pulse Power (tp = 8/20 μs) | 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 | | ± 30 | |
| IEC61000-4-2 contact discharge | | ± 30 | |

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$)

| Symbol | Parameter |
|--------|--------------------|
| VRM | Stand-off voltage |
| VBR | Breakdown voltage |
| VCL | Clamping voltage |
| IRM | Leakage current |
| IPPM | Peak pulse current |

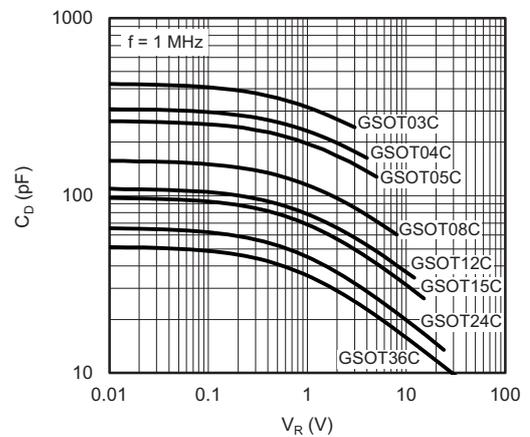
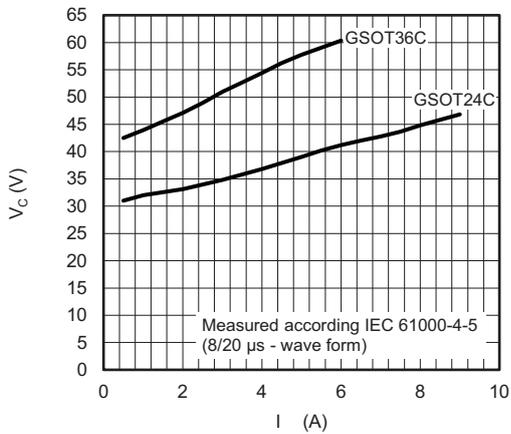
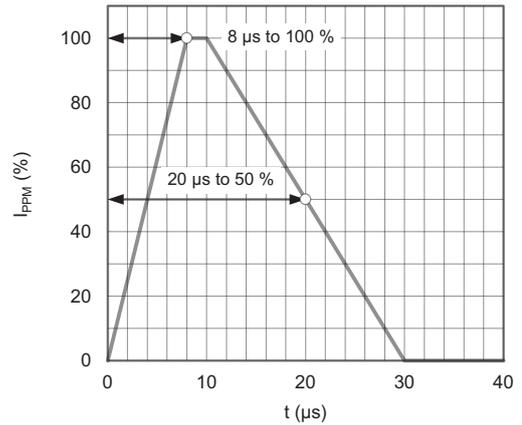
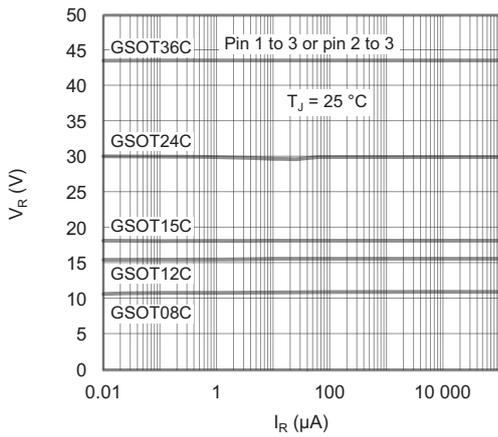
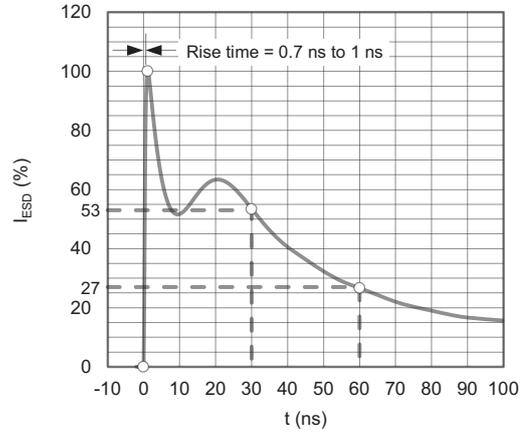
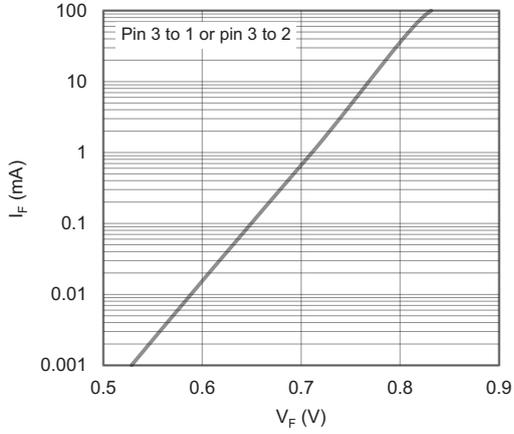


ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$)

| DEVICE | V_{RWM} (V) (max.) | V_B (V) (min.) | I_T (mA) | $V_C@5A$ (V) (max.) | V_C (V) (max.) (@A) | I_R (μA) (max.) | C_T (pF) (max.) |
|---------|----------------------------|------------------------|---------------|---------------------------|-----------------------------|--------------------------------------|-------------------------|
| GSOT36C | 36 | 40 | 1 | 60 | 75/5 | 1 | 75 |

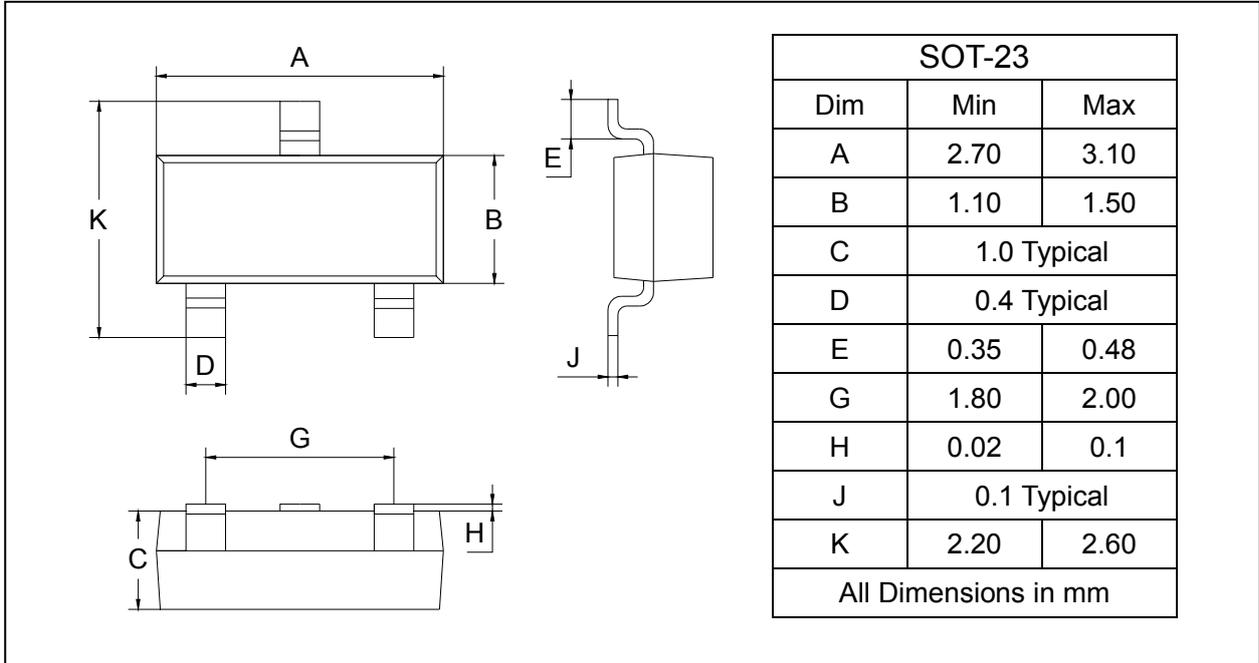
1. 8/20 waveform used.

ELECTRICAL CHARACTERISTICS CURVE

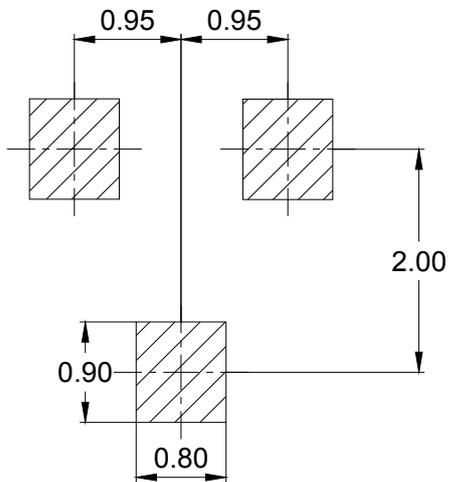


Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm