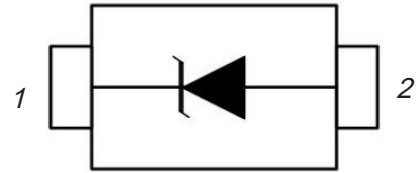


FEATURES

- IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- 350 Watts Peak Pulse Power per (tp=8/20µs)
- Protects one I/O line (unidirectional)
- Low clamping voltage
- Working voltages : 3.3V to 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

MACHANICAL DATA

- SOD-323 package
- Packaging: Tape and Reel
- High temperature soldering guaranteed: 260°C/10s

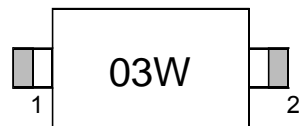
ABSOLUTE MAXIMUM RATING

| 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 |

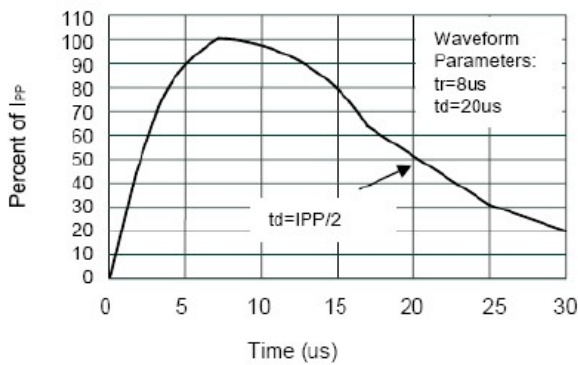
ELECTRICAL CHARACTERISTICS (Tamb=25 °C)

| PART NUMBER | DEVICE MARKING | V_{RWM} | V_B | I_T | $V_C@1A$ | V_C | | I_R | C_T |
|-------------|----------------|---------------|---------------|-------|---------------|--------|------|-----------------------|----------------|
| | | (V) (max.) | (V) (min.) | (mA) | (V) (max.) | (max.) | (@A) | (μA) (max.) | (pF) (max.) |
| SD03 | 03W | 3.3 | 4 | 1 | 6.5 | 10.5 | 20 | 40 | 450 |
| SD05 | 05W | 5 | 6 | 1 | 9.8 | 18 | 17 | 10 | 300 |
| SD12 | 12W | 12 | 13.3 | 1 | 19 | 32 | 11 | 1 | 130 |
| SD15 | 15W | 15 | 16.7 | 1 | 24 | 38 | 10 | 1 | 120 |
| SD18 | 18W | 18 | 20.0 | 1 | 29 | 45 | 9 | 1 | 100 |
| SD20 | 20W | 20 | 22.3 | 1 | 35 | 50 | 8 | 1 | 90 |
| SD24 | 24W | 24 | 26.7 | 1 | 43 | 52 | 7 | 1 | 80 |
| SD36 | 36W | 36 | 40 | 1 | 60 | 75 | 5 | 1 | 60 |

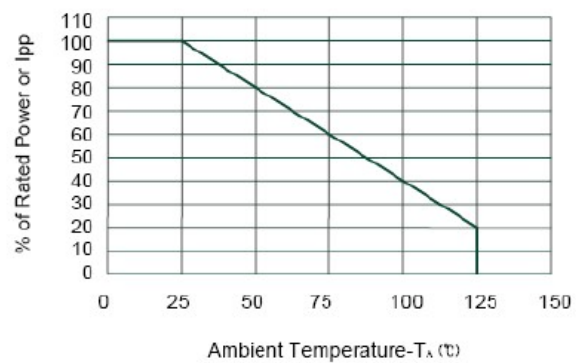
Marking



ELECTRICAL CHARACTERISTICS CURVE

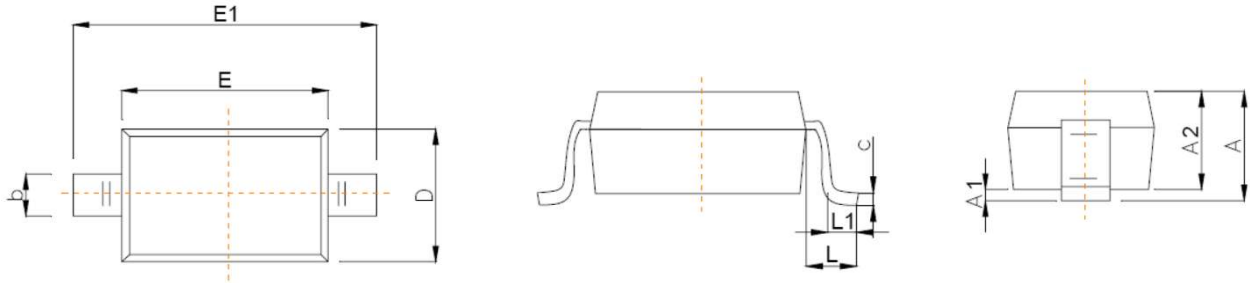


Pulse Waveform

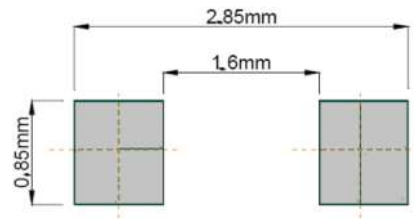


Power Derating Curve

SOD-323 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters | |
|--------|---------------------------|-------|
| | Min | Max |
| A | | 1.00 |
| A1 | 0.000 | 0.100 |
| A2 | 0.800 | 0.900 |
| b | 0.250 | 0.350 |
| c | 0.080 | 0.150 |
| D | 1.200 | 1.400 |
| E | 1.600 | 1.800 |
| E1 | 2.500 | 2.700 |
| e | 1.800 | 2.040 |
| L | 0.475 REF | |
| L1 | 0.250 | 0.400 |
| θ | 0° | 8° |



Recommended Pad outline

Ordering information

| Order code | Package | Baseqty | Deliverymode |
|------------|---------|---------|---------------|
| SD03 | SOD-323 | 3000 | Tape and reel |
| SD05 | SOD-323 | 3000 | Tape and reel |
| SD12 | SOD-323 | 3000 | Tape and reel |
| SD15 | SOD-323 | 3000 | Tape and reel |
| SD18 | SOD-323 | 3000 | Tape and reel |
| SD20 | SOD-323 | 3000 | Tape and reel |
| SD24 | SOD-323 | 3000 | Tape and reel |
| SD36 | SOD-323 | 3000 | Tape and reel |