

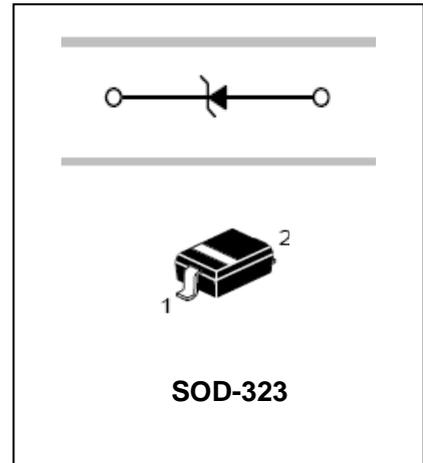


Single Line TVS Diode

SD18

FEATURES

- Suitable replacement for MLV'S ESD protection
- Low leakage current
- Low clamping voltage
- Working voltage:18V



APPLICATIONS

- Single line TVS diode

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| SD18 | 7U | SOD-323 |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Limits | Unit |
|---|-----------|------------|------|
| Peak pulse power dissipation($t_p=8/20\mu s$) | P_{pk} | 500 | W |
| Operating temperature | T_L | -55 to+150 | °C |
| Storage temperature | T_{STG} | -55 to+150 | °C |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

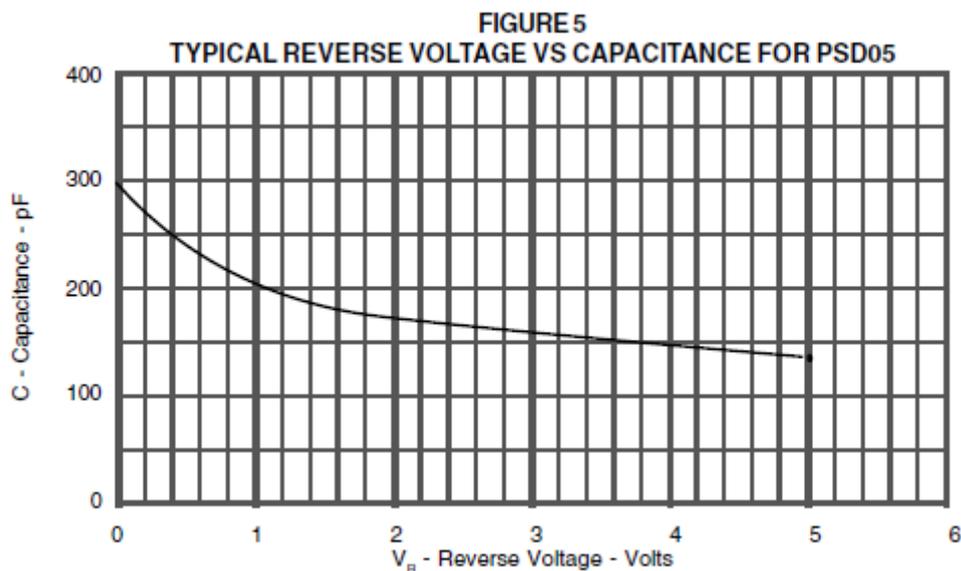
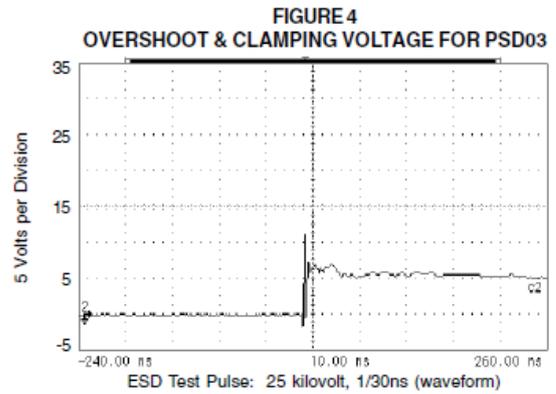
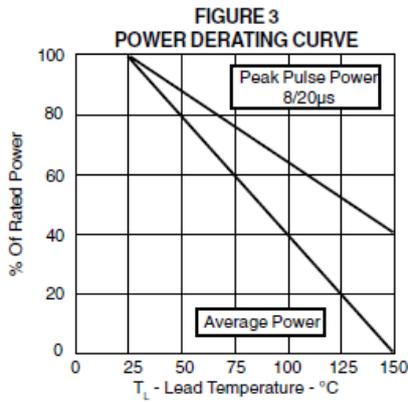
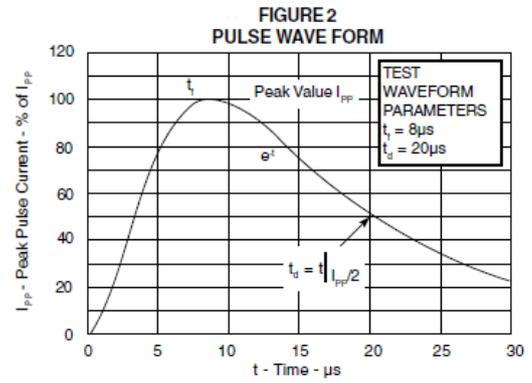
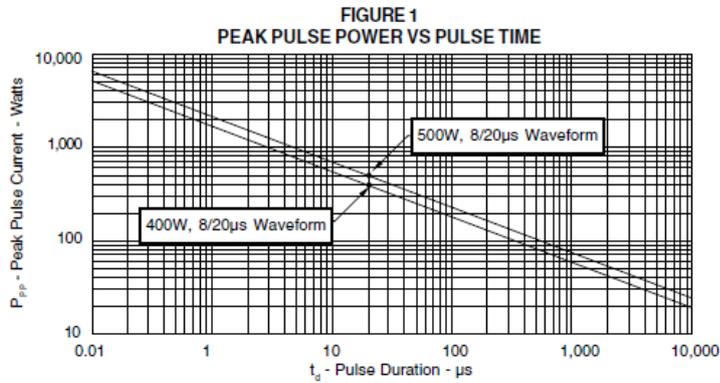
| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|---------------------------|-----------|-----------------------------|-----|-----|-----|---------|
| Reverse stand-off voltage | V_{RWM} | | | | 18 | V |
| Reverse breakdown voltage | V_{BR} | $I_t=1mA$ | 20 | | | V |
| Reverse leakage current | I_R | $V_{RWM}=18V, T=25^\circ C$ | | | 1 | μA |
| Clamping voltage | V_C | $I_{PP}=1A, t_p=8/20\mu s$ | | | 29 | V |
| Clamping voltage | V_C | $I_{PP}=9A, t_p=8/20\mu s$ | | | 40 | V |
| Junction capacitance | C_j | $V_R=0V, f=1MHz$ | | | 90 | pF |



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TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



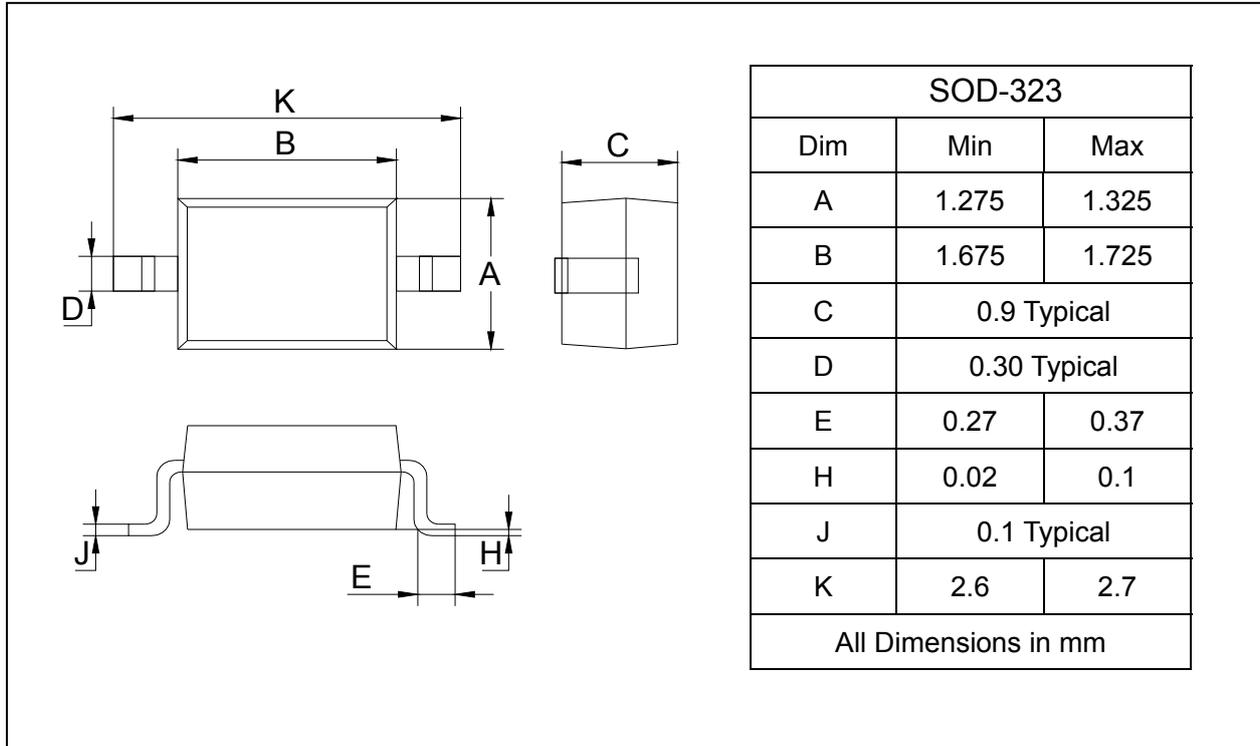
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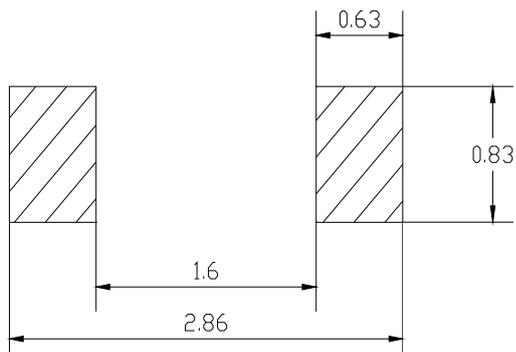
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

| Device | Package | Shipping |
|--------|---------|----------------|
| SD18 | SOD-323 | 3000/Tape&Reel |