



SD107WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 30 Volts **POWER** 200mA

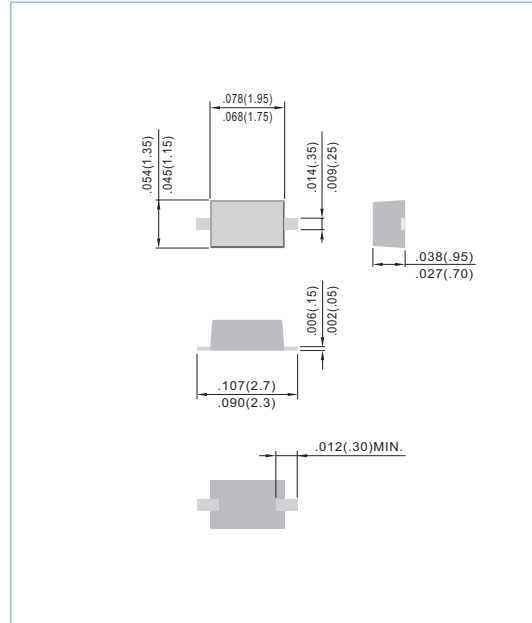
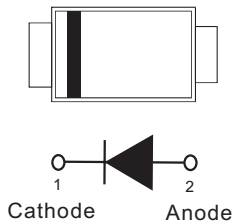
SOD-323 Unit: inch (mm)

FEATURES

- Very Low V_F : 0.36V(Max) at $I_F=2mA$
- Low Capacitance : 3.0pF(Max) at $V_R=10V$
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case : SOD-323, plastic
 Terminals : Solderable per MIL-STD-750,Method 2026
 Approx Weight : 0.041 gram
 Polarity : Color band cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

| PARAMETER | SYMBOL | SD107WS | UNITS |
|---|-----------------|-------------|-------|
| Marking Code | - | S9 | - |
| Maximum Reverse Voltage | V_R | 30 | V |
| Peak Reverse Voltage | V_{RRM} | 30 | V |
| Maximum Forward Current | I_F | 0.2 | A |
| Non-Repetitive Forward Surge Current $t_p=10ms$ | I_{FSM} | 0.75 | A |
| Power Dissipation (1) | P_{TOT} | 200 | mW |
| Thermal Resistance, Junction to Ambient (1) | $R_{\theta JA}$ | 625 | °C/W |
| Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | °C |

NOTE : FR-4 Board = 70 x 60 x 1mm.

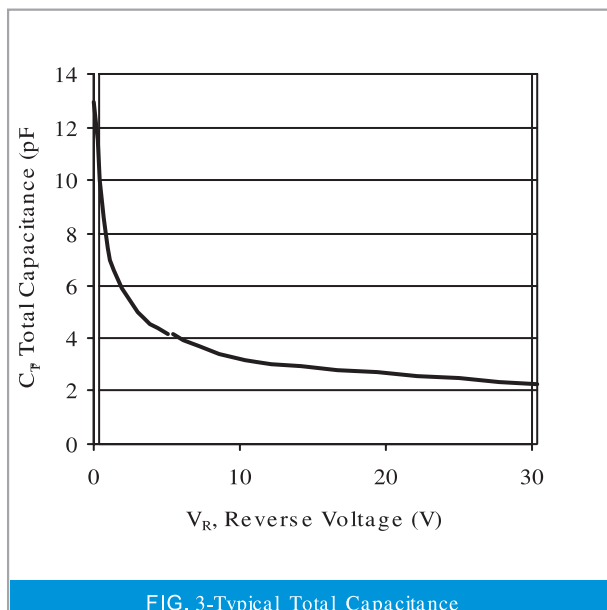
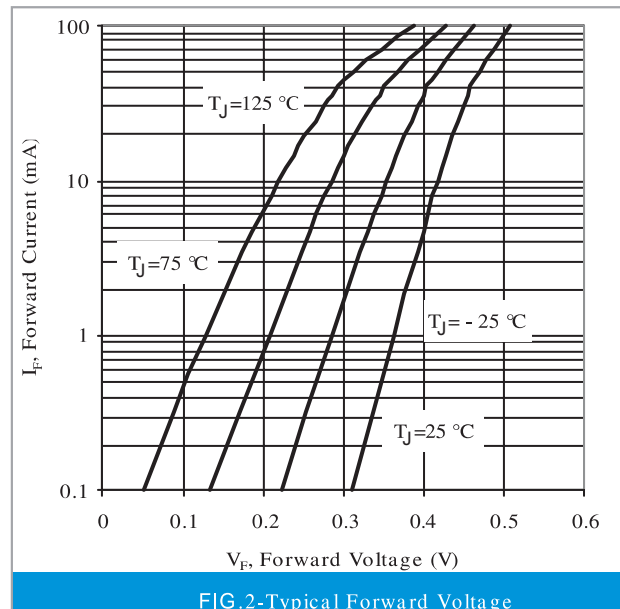
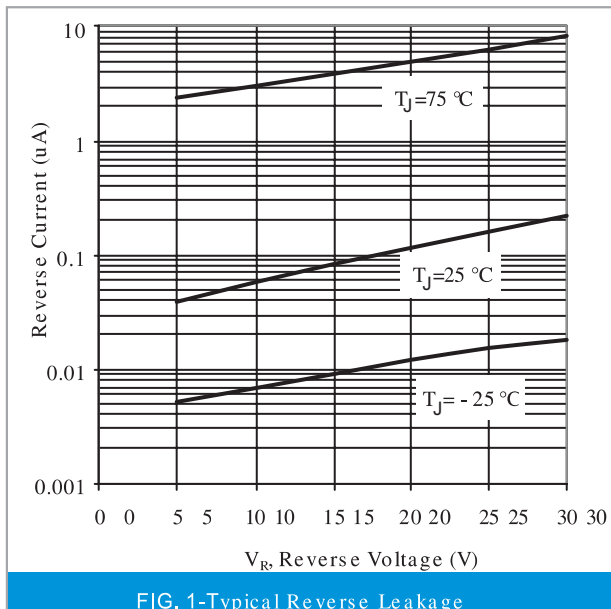


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ELECTRICAL CHARACTERISTICS (each diode)(T_J=25°C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNITS |
|---------------------------|-------------------|--|-----|-----|----------------------|-------|
| Reverse Breakdown Voltage | V _(BR) | I _R =10μA | 30 | - | - | V |
| Reverse Leakage Current | I _R | V _R =25V | - | - | 1.0 | μA |
| Forward Voltage | V _F | I _F =100mA I _F =2.0mA I _F =50mA | - | - | 0.80 0.36 0.55 | V |
| Total Capacitance | C _J | V _R =10V,f=1.0MHz | - | 3.0 | 7.0 | pF |

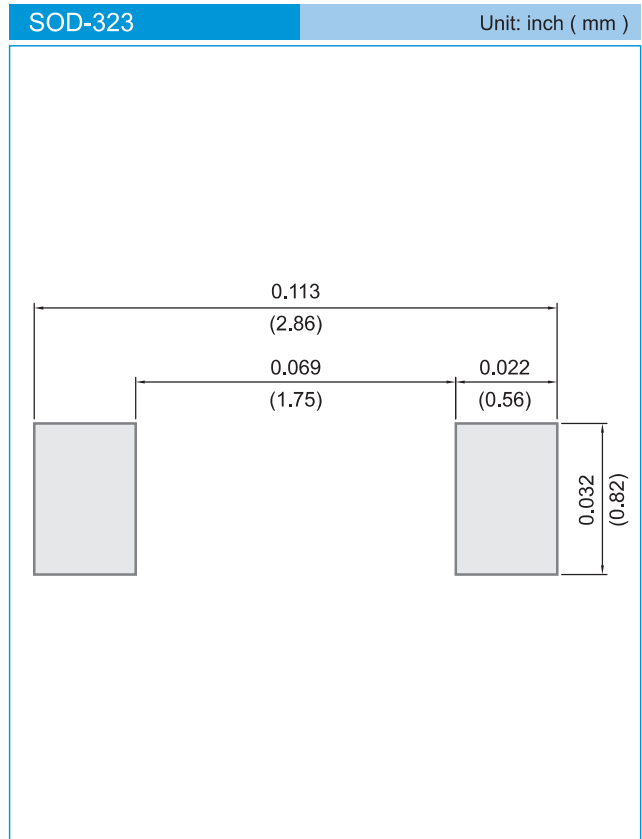
ELECTRICAL CHARACTERISTICS CURVE





SD107WS

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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