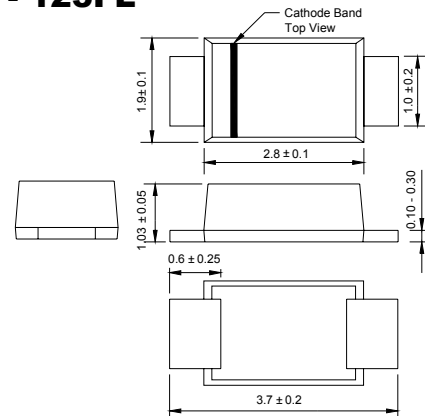


SCHOTTKY BARRIER RECTIFIER
REVERSE VOLTAGE: 20 - 100 V
CURRENT: 2.0 A
FEATURES

- ◇ Low forward surge current
- ◇ Ideal for surface mouted applications
- ◇ Low leakage current

MECHANICAL DATA

- ◇ Case:JEDEC SOD-123FL,molded plastic over passivated chip
- ◇ Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.0172 gram
- ◇ Mounting position: Any

SOD - 123FL

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single hase,half wave,60Hz,resistive or inductive load.For capacive load,derate current by 20%.

ELECTRICAL CHARACTERISTICS

| | | SS2020FL | SS2030FL | SS2040FL | SS2060FL | SS20A0FL | UNITS |
|---|------------|----------------|----------|----------|----------|----------|-------|
| Device marking code | | GM | GN | GP | GQ | GR | |
| Maximum recurrent peak reverse voltage | V_{RRM} | 20 | 30 | 40 | 60 | 100 | V |
| Maximum RMS voltage | V_{RMS} | 14 | 21 | 28 | 42 | 70 | V |
| Maximum DC blocking voltage | V_{DC} | 20 | 30 | 40 | 60 | 100 | V |
| Maximum average forward rectified current $T_j=75^\circ\text{C}$ | $I_{(AV)}$ | 2.0 | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 50 | | | | | A |
| Maximum instantaneous forward voltage @ $I_{FM}=2.0\text{A}$ | V_F | 0.55 | | 0.70 | | 0.85 | V |
| Repetitive peak reverse current at rated DC blocking voltage | I_R | 0.5 | | | | | m A |
| Typical junction capacitance | C_J | 30 | | | | | p F |
| Operating temperature range | T_j | - 50 --- + 125 | | | | | °C |
| Storage temperature range | T_{STG} | - 50 --- + 150 | | | | | °C |

NOTE1.Measured at $f=1.0\text{MHz}$, $V_R=4.0\text{V}$
www.diode.co.kr

FIG.1 – FORWARD DERATING CURVE

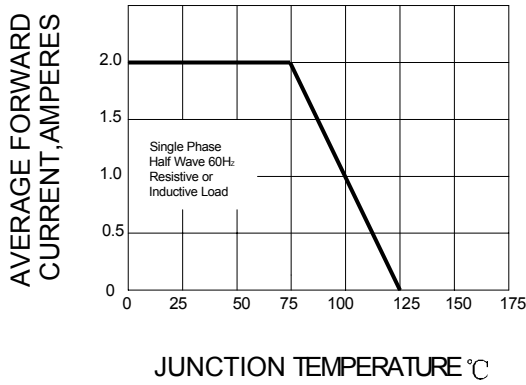


FIG.2– PEAK FORWARD SURGE CURRENT

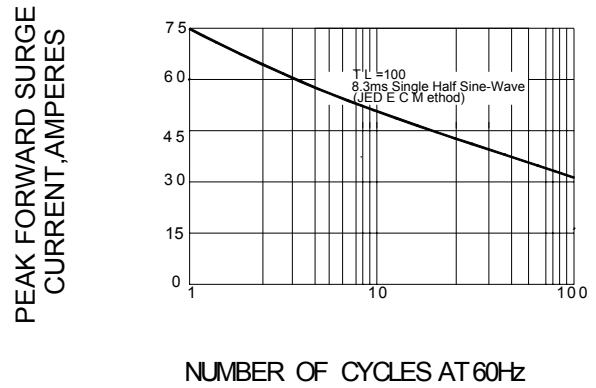


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

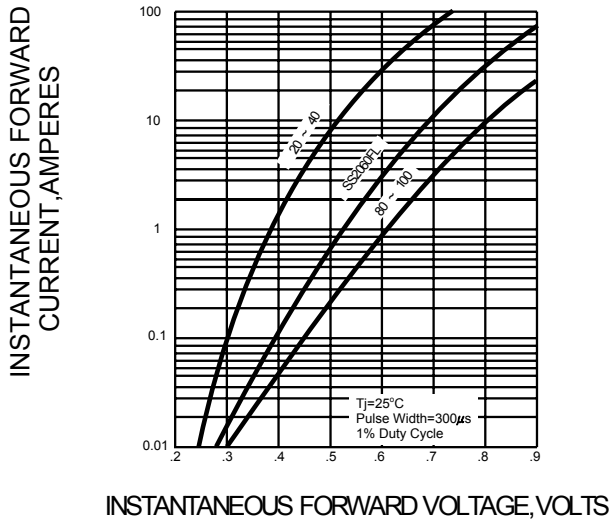


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

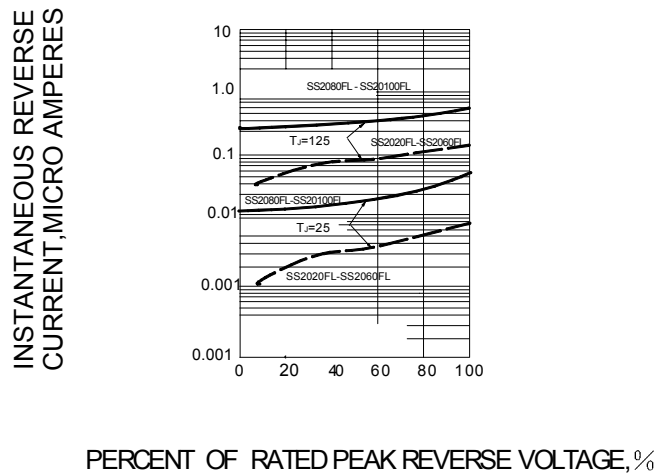


FIG.5–TYPICAL JUNCTION CAPACITANCE

