

REVERSE VOLTAGE: 40V
FORWARD CURRENT: 2.0 A



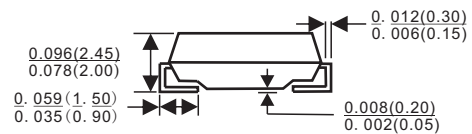
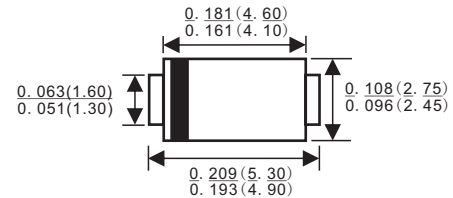
Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

SMA/DO-214AC



Dimensions in inches and(millimeters)

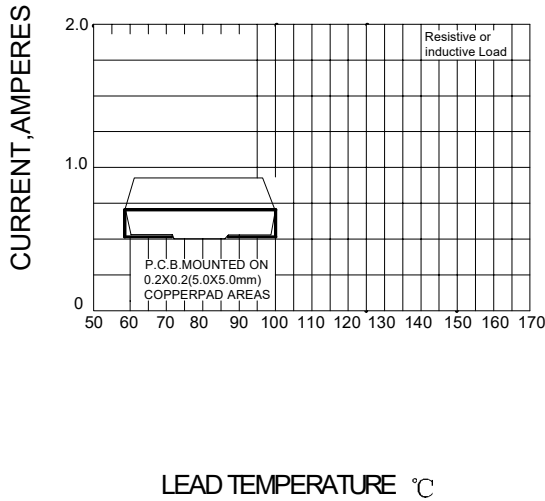
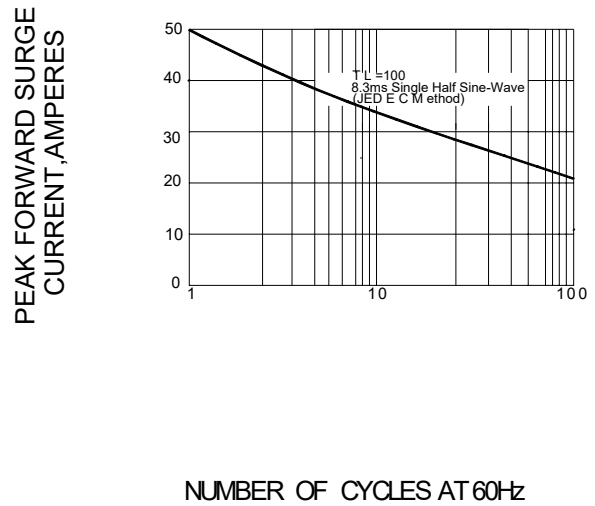
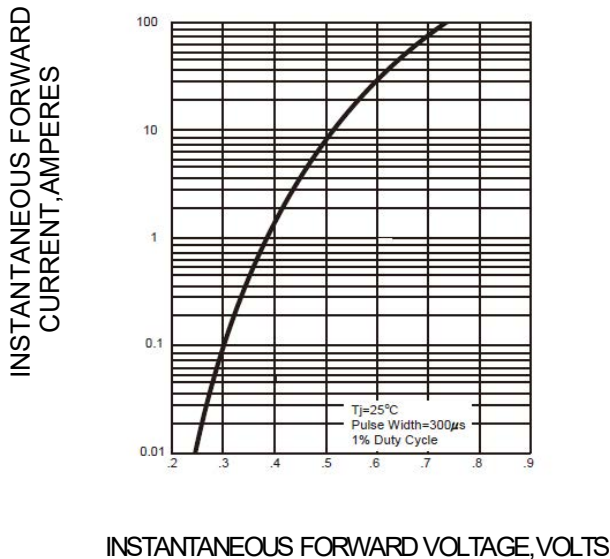
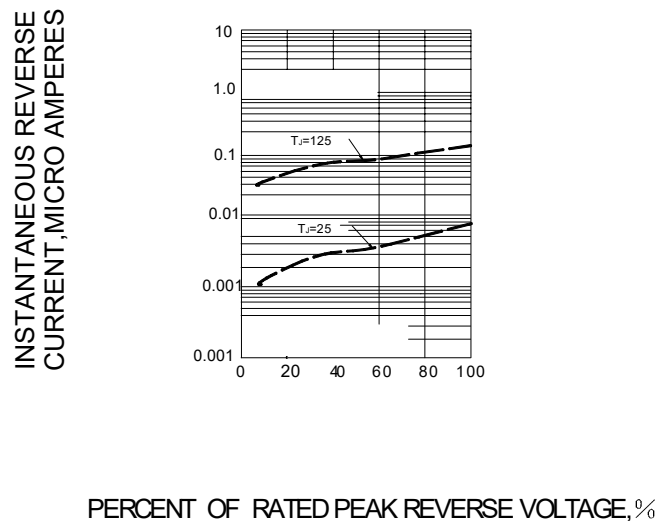
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

| | | RB060L-40 | UNITS |
|---|-----------------|---------------|---------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 40 | V |
| Maximum RMS voltage | V_{RWS} | 28 | V |
| Maximum DC blocking voltage | V_{DC} | 40 | V |
| Maximum average forward rectified current at $T_L=90^{\circ}C$ | $I_{F(AV)}$ | 2.0 | A |
| Peak forward surge current 8.3ms single half-sine-wave | I_{FSM} | 50 | A |
| Maximum instantaneous forward voltage at $I_{FM}=2.0A$ (NOTE1) | V_F | 0.50 | V |
| Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$ | I_R | 0.4 10 | m A |
| Maximum thermal resistance | $R_{\theta JL}$ | 28 | $^{\circ}C/W$ |
| Operating temperature range | T_J | -55 ---- +125 | $^{\circ}C$ |
| Storage temperature range | T_{STG} | -55 ---- +150 | $^{\circ}C$ |

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

FIG.2– PEAK FORWARD SURGE CURRENT

FIG.3 – TYPICAL FORWARD CHARACTERISTICS

FIG.4 – TYPICAL REVERSE CHARACTERISTICS


| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|-----------|----------------|----------------|--------------|--------------|
| SMA | 5000/REEL | 80000 | 36X30.6X31 | 12.00 | 11.00 |

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