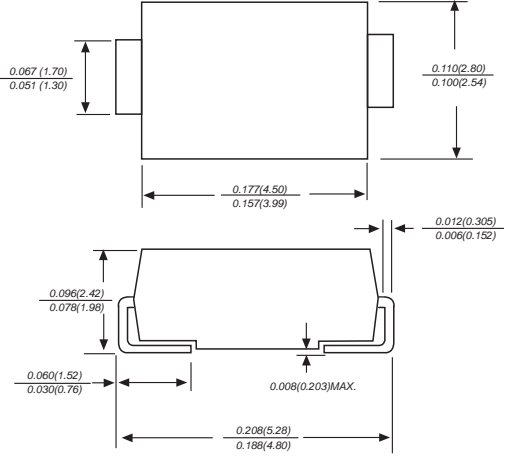


B340A

| SMA | FEATURES |
|--|--|
|  <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p> | <ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Low reverse leakage ◆ Built-in strain relief, ideal for automated placement ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals |
| | <h3>MECHANICAL DATA</h3> <p> Case: JEDEC SMA molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.002 ounce, 0.07 grams </p> |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

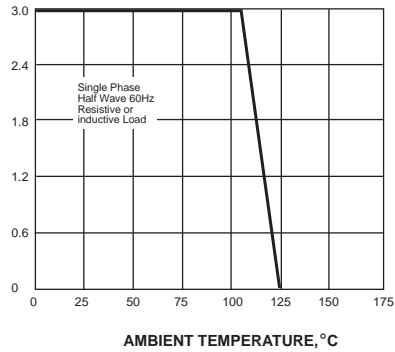
Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Catalog Number | SYMBOLS | B340A | UNITS |
|---|-----------------|-------------|-------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 40 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 28 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 40 | VOLTS |
| Maximum average forward rectified current at T_L (see fig.1) | $I_{(AV)}$ | 3.0 | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 100.0 | Amps |
| Maximum instantaneous forward voltage at 3.0A | V_F | 0.55 | Volts |
| Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ | I_R | 0.5 20 | mA |
| Typical junction capacitance (NOTE 1) | C_J | 500 | pF |
| Typical thermal resistance (NOTE 2) | $R_{\theta JA}$ | 55.0 | °C/W |
| Operating junction temperature range | T_J | -65 to +125 | °C |
| Storage temperature range | T_{STG} | -65 to +150 | °C |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

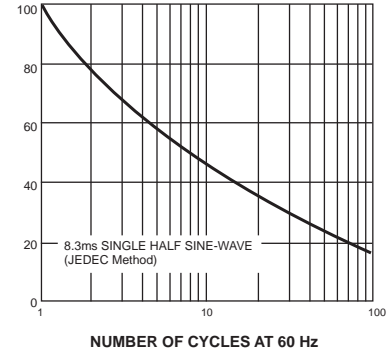


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

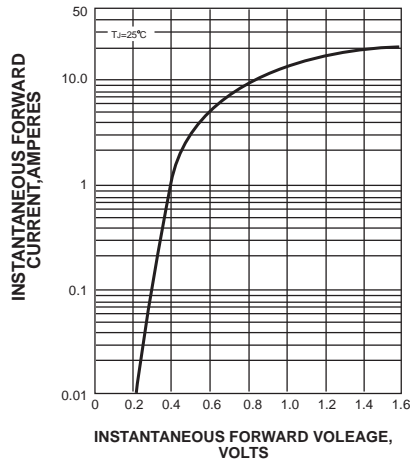


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

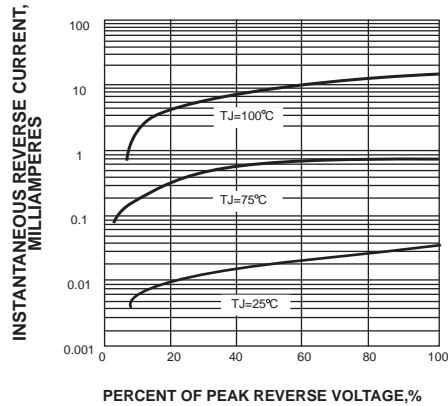
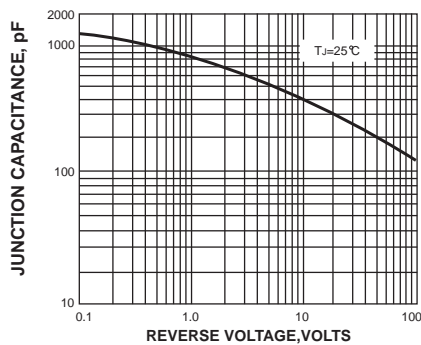


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

