



### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.063 grams

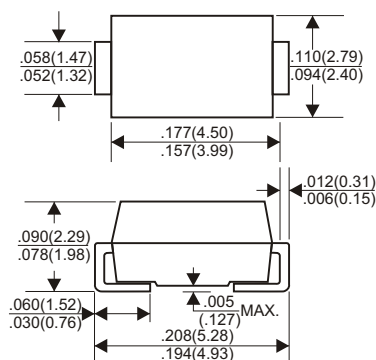
### VOLTAGE RANGE

40 Volts

### CURRENT

2.0 Ampere

### DO-214AC(SMA)



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER                                                                                        | RB160L-40TE25 | UNITS |
|----------------------------------------------------------------------------------------------------|---------------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 40            | V     |
| Maximum RMS Voltage                                                                                | 28            | V     |
| Maximum DC Blocking Voltage                                                                        | 40            | V     |
| Maximum Average Forward Rectified Current                                                          |               |       |
| See Fig. 1                                                                                         | 2.0           | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 50            | A     |
| Maximum Instantaneous Forward Voltage at 2.0A                                                      | 0.55          | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 0.1           | mA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 5             | mA    |
| Typical Junction Capacitance (Note1)                                                               | 170           | pF    |
| Typical Thermal Resistance R JA (Note 2)                                                           | 75            | °C/W  |
| Operating Temperature Range Tj                                                                     | -65 — +150    | °C    |
| Storage Temperature Range Tstg                                                                     | -65 — +150    | °C    |

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

## RATING AND CHARACTERISTIC CURVES (RB160L-40TE25)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

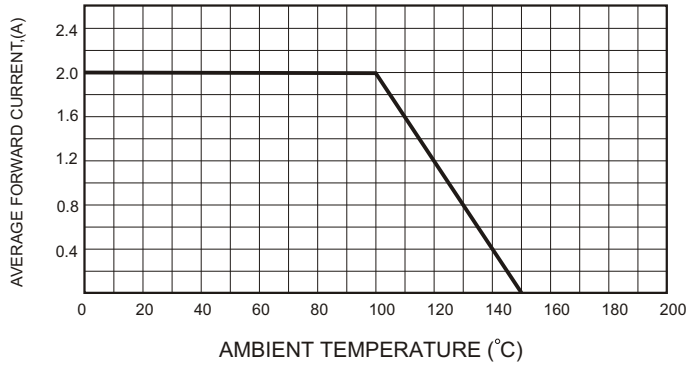


FIG.2-TYPICAL FORWARD CHARACTERISTICS

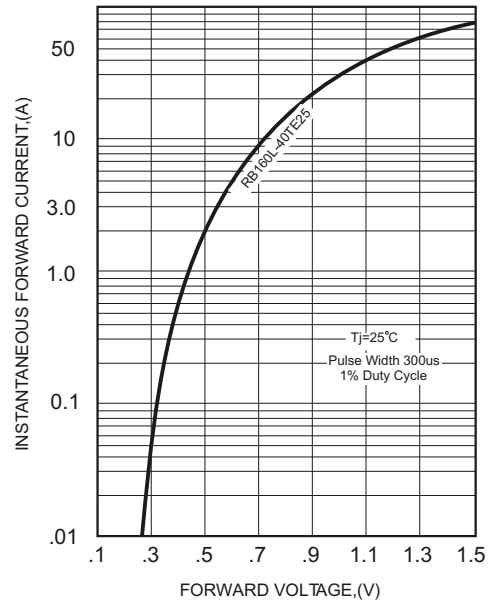


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

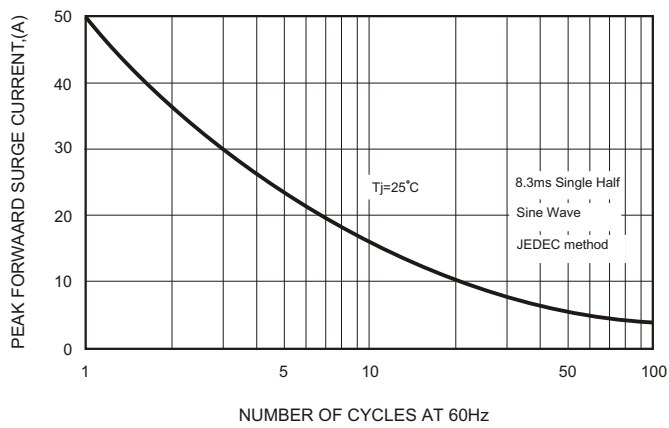


FIG.4-TYPICAL JUNCTION CAPACITANCE

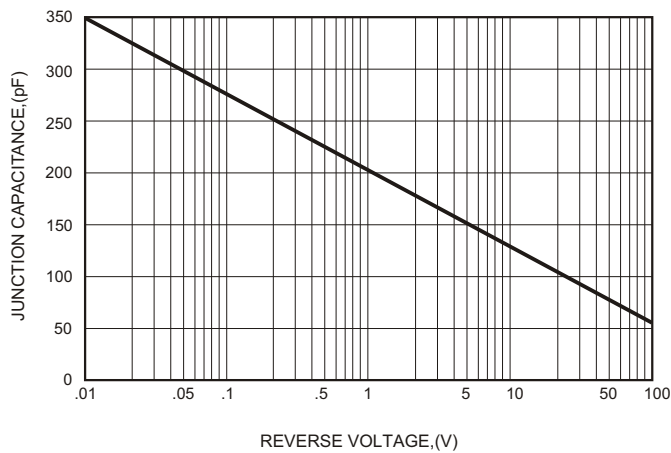


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

