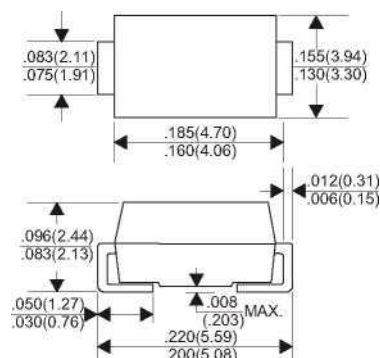


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250 °C/10 seconds at terminals

DO-214AA(SMB)



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DO-214AC/SMA molded plastic body
 Terminals : Solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end Mounting
 Position : Any
 Weight : 0.003 ounce, 0.093 grams

MARKING DIAGRAMS



ORDERING INFORMATION

| Device | Package | Shipping [†] |
|--------|------------------|-----------------------|
| SS54 | SMB (Pb-Free) | 3000 / Tape & Reel |

MAXIMUM RATINGS

| TYPE NUMBER | SSB43L-E3-52T | 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 | 5.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 120 | A |
| Maximum Instantaneous Forward Voltage at 5.0A | 0.44 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | 0.2 50 | mA mA |
| Typical Junction Capacitance (Note 1) | 380 | pF |
| Typical Thermal Resistance R _{JA} (Note 2) | 70 | °C/W |
| Operating Temperature Range T _J | -55 — +125 | °C |
| Storage Temperature Range T _{STG} | -55 — +150 | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Unit mounted on PC board with 5.0mmX 5.0 mm (0.013 mm thick) copper pads on heat sink

RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

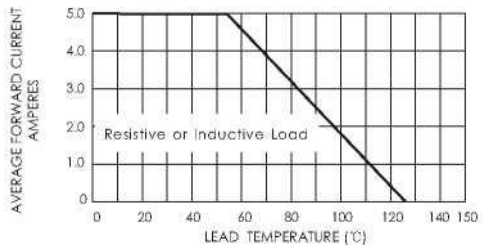


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

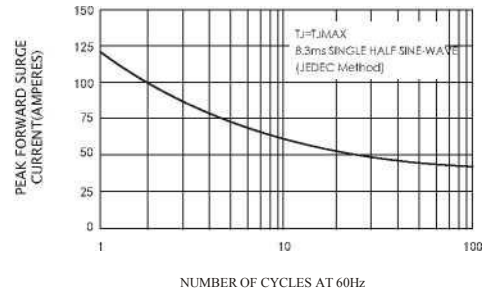


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

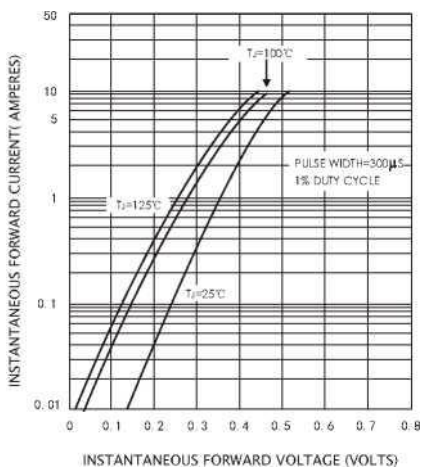


FIG.4-TYPICAL REVERSE CHARACTERISTICS

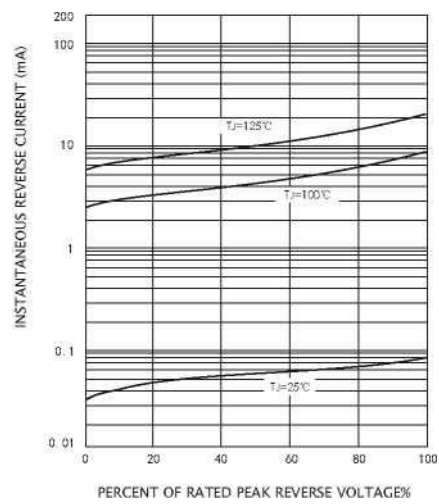
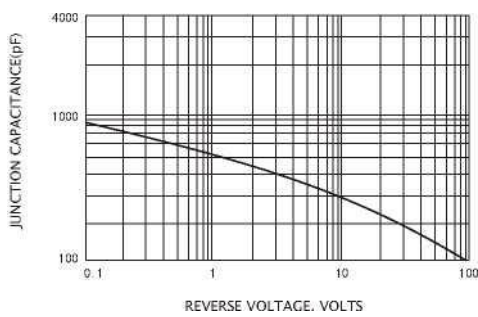


FIG.5-TYPICAL JUNCTION CAPACITANCE



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