

Low VF Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

Features:

- *Low Surface Mounted Applications
- *Metal-Semiconductor Junction with Guardring
- *Epitaxial Construction
- *Very Low Forward Voltage Drop
- *High Current Capability
- *Plastic Material Has UL Flammability Classification 94V-0
- *For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

Mechanical Data

- *Case : Molded Plastic
- *Polarity :Indicated By Cathode Band
- *Weight : 0.002 ounces, 0.064 grams

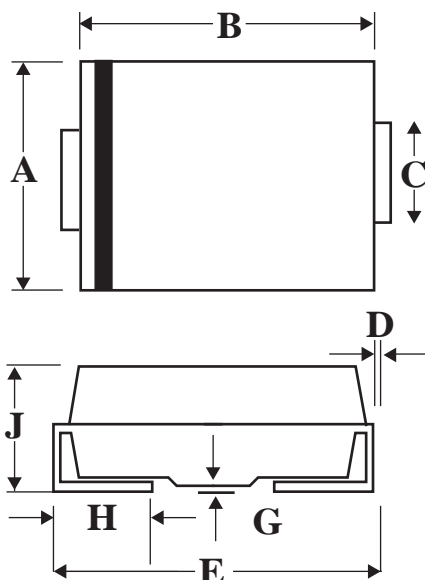
**REVERSE VOLTAGE
40VOLTS
FORWARD CURRENT
3.0 AMPERE**



SMA(DO-214AC)

SMA Outline Dimension

unit:mm



| SMA | | |
|----------|------|------|
| Dim | Min | Max |
| A | 2.20 | 2.92 |
| B | 4.00 | 4.60 |
| C | 1.27 | 1.63 |
| D | 0.15 | 0.31 |
| E | 4.48 | 5.59 |
| G | 0.10 | 0.20 |
| H | 0.76 | 1.52 |
| J | 1.70 | 2.62 |

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%.

| Characteristics | Symbol | B340LA | Unit |
|--|--------|------------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 40 | V |
| Maximum RMS Voltage | VRMS | 28 | V |
| Maximum DC Blocking Voltage | VDC | 40 | V |
| Maximum Average Forward Rectified Current @TC=100°C | IF(AV) | 3.0 | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | IFSM | 100 | A |
| Maximum Instantaneous At 3.0A DC | VF | 0.40 | V |
| Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=100°C | IR | 1.0 80 | mA |
| Typical Junction Capacitance (Note 1) | CJ | 250 | Pf |
| Typical Thermal Resistance (Note 2) | RθJC | 10 | °C/W |
| Operating Temperature Range | TJ | -55 to+125 | °C |
| Storage Temperature Range | TSTG | -55 to+150 | °C |

NOTES:1.Measured at 1.0MHz applied reverse voltage of 4.0V DC.

2.Thermal Resistance Junction to case.

FIG.1- FORWARD CURRENT DERATING CURVE

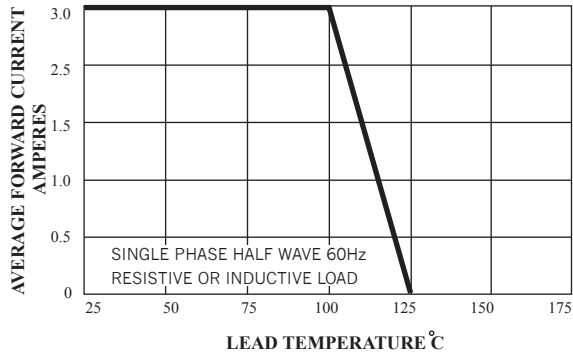


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

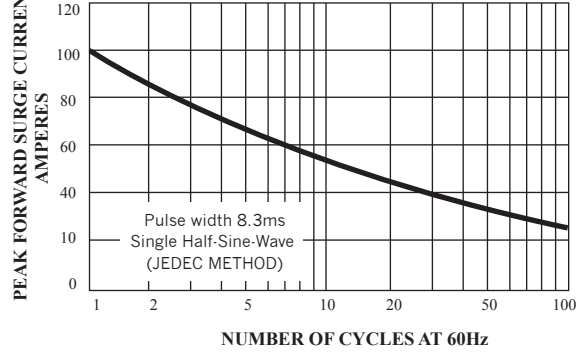


FIG.3-TYPICAL FORWARD CHARACTERISTICS

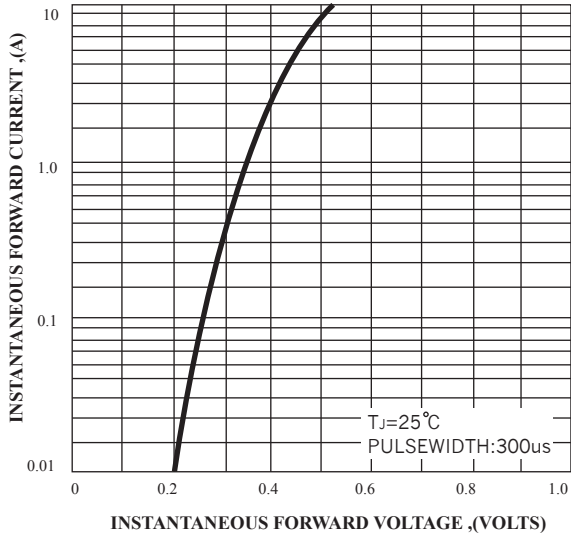


FIG.4-TYPICAL JUNCTION CAPACITANCE

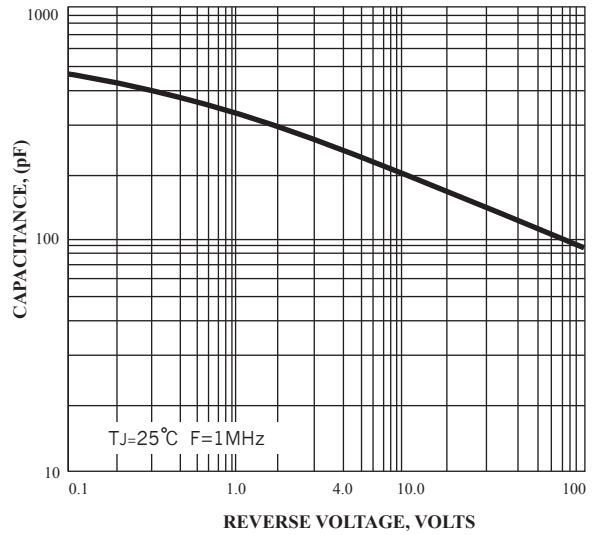


FIG.5-TYPICAL REVERSE CHARACTERISTICS

