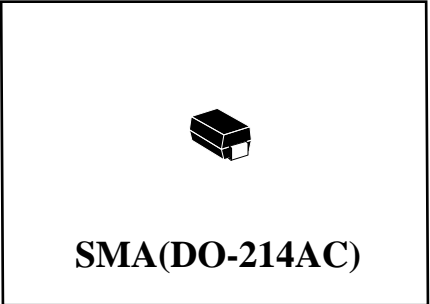


Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

**REVERSE VOLTAGE
20 TO 40 VOLTS
FORWARD CURRENT
1.0 AMPERE**



Features:

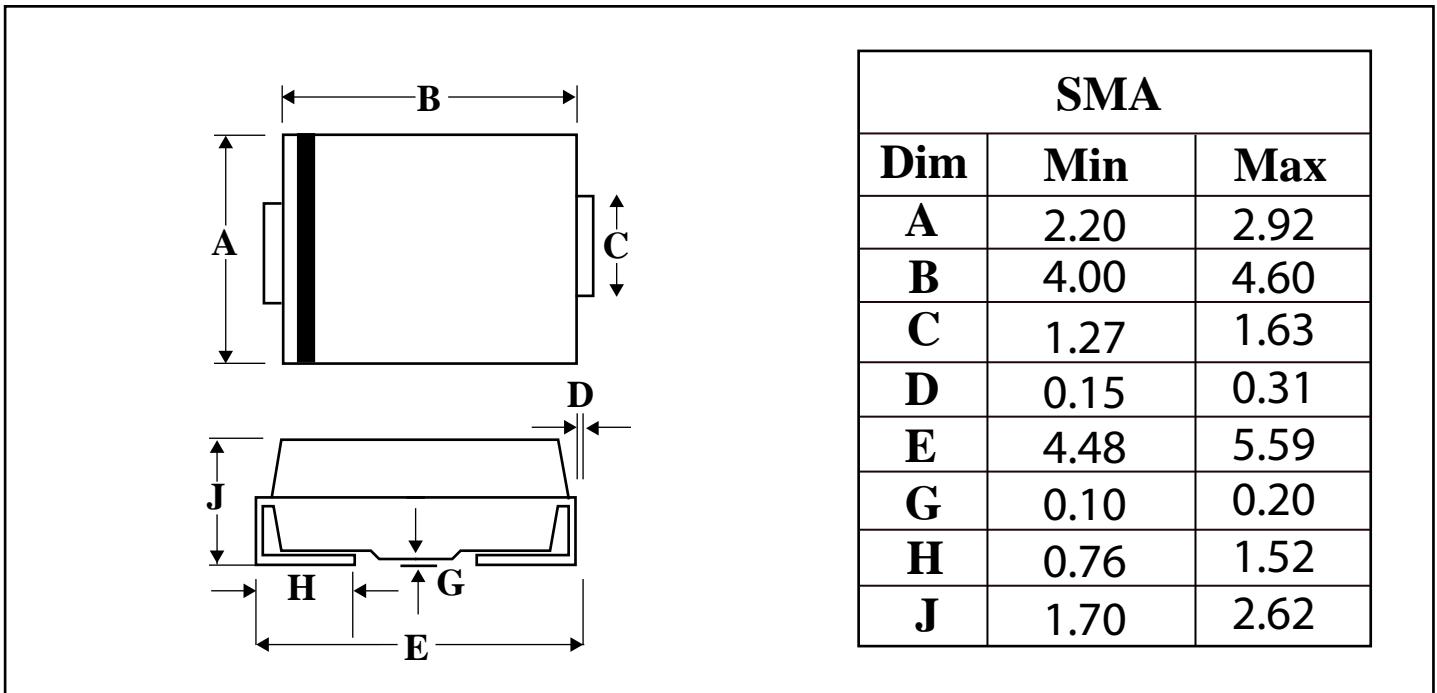
- * Low profile package
- * Ideal for automated placement
- * Guard Ring for over voltage protection
- * Low forward voltage drop
- * Component in accordance to RoHS 2002/95/EC

Mechanical Data

- * Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- * Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- * Polarity: Cathode Band
- * Weight: 0.062 grams (approximate)

SMA Outline Dimension

Unit:mm



Maximum Ratings and Electrical Characteristics

(TA=25°C unless otherwise noted)

| Characteristic | Symbol | B120 | B140L | Unit |
|--|---------------|--------------|--------------|-------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 40 | V |
| Maximum RMS Voltage | VRMS | 16 | 32 | V |
| Maximum DC Blocking Voltage | VDC | 20 | 40 | V |
| Maximum Average Forward Rectified Current | IF | 1.0 | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | IFSM | 35.0 | | A |
| Maximum Instantaneous At 1.0A @Tj=25 C° | VF | 0.38 | 0.40 | V |
| Maximum DC Reverse Current @Tj=25 C° At Rated DC Blocking Voltage @Tj=100 C° | IR | 1.0 100.0 | | mA |
| Operating Temperature Range | TJ | -25 to+125 | | °C |
| Storage Temperature Range | TSTG | -50 to+150 | | °C |

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

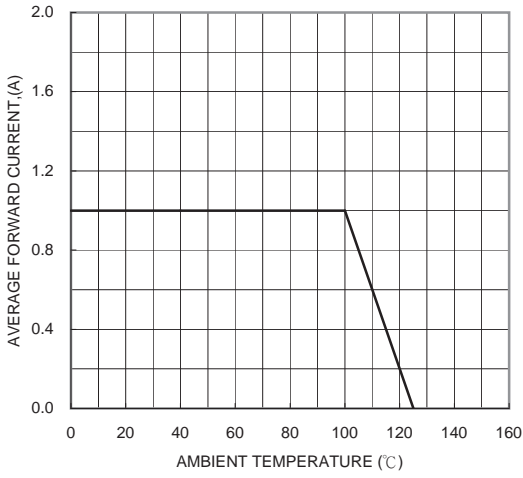


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

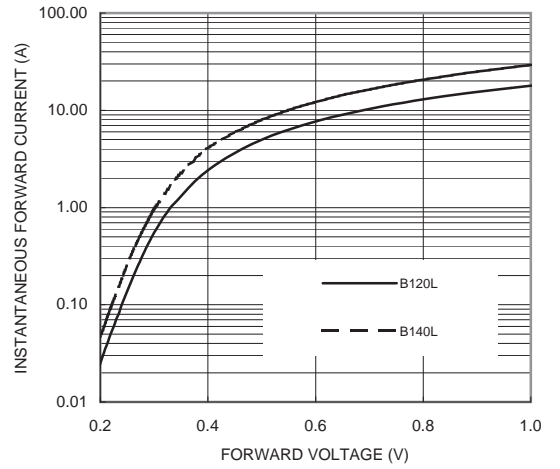


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

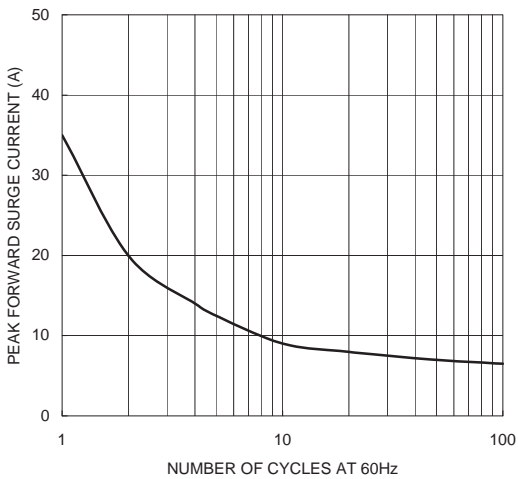


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

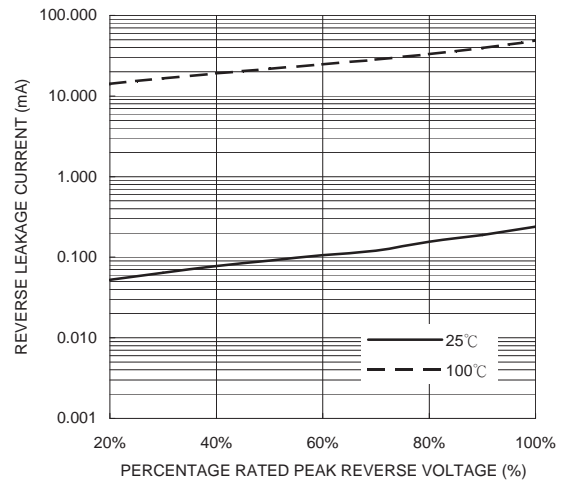


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

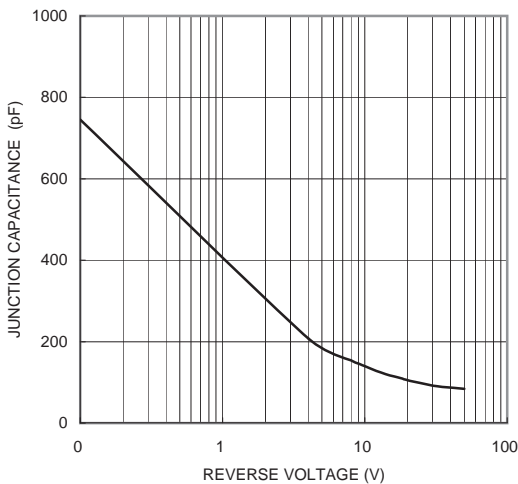


FIG. 5-TYPICAL JUNCTION CAPACITANCE