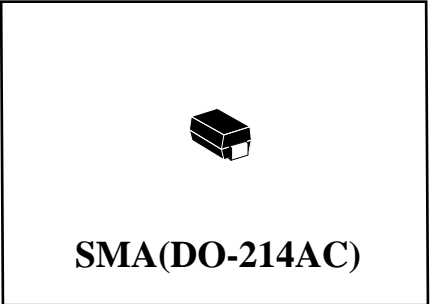


Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

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



Features:

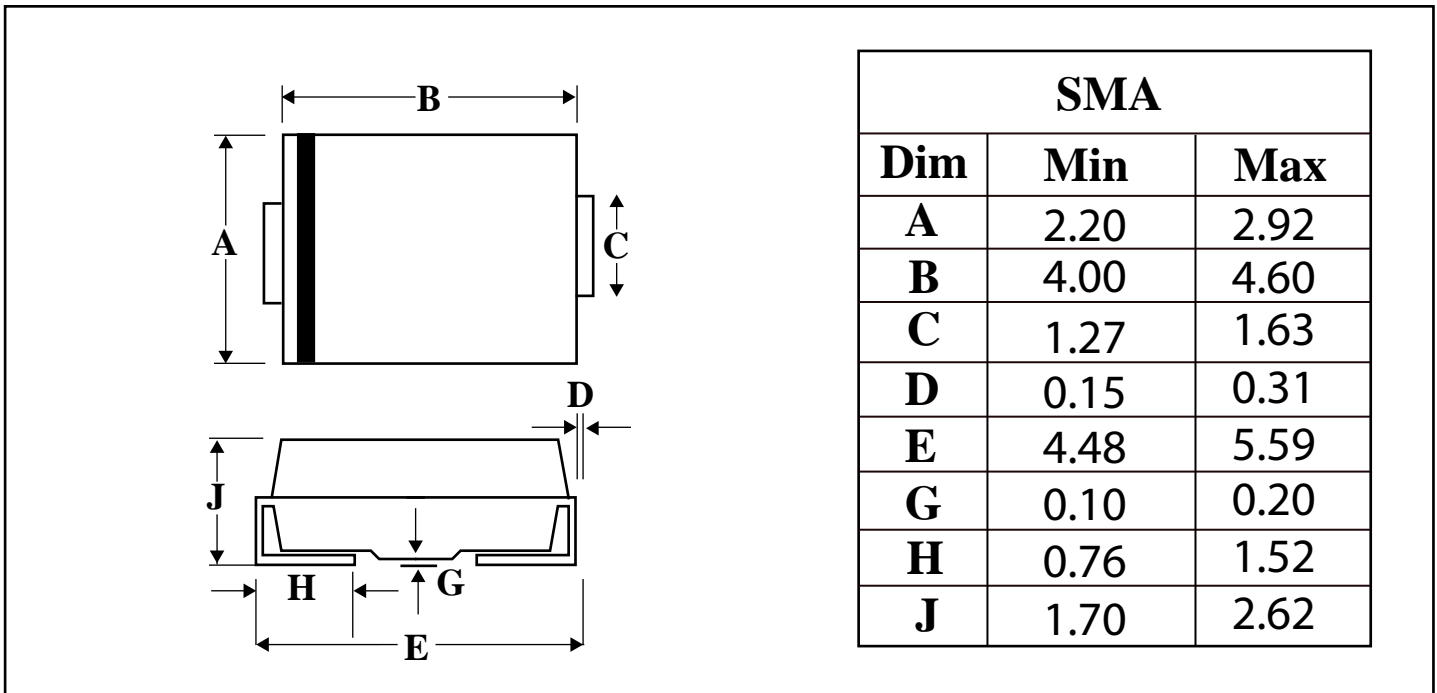
- * Low profile package
- * Ideal for automated placement
- * Guard Ring for over voltage protection
- * Low forward voltage drop
- * Component in accordance to RoHS 2002/95/EC

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.

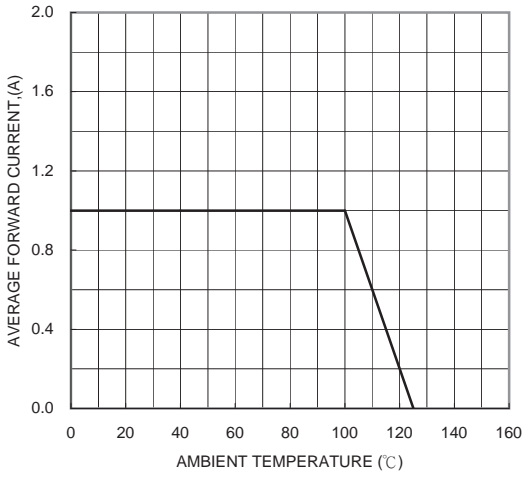


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

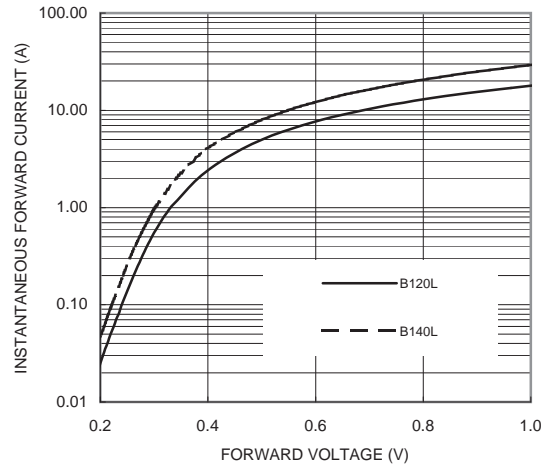


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

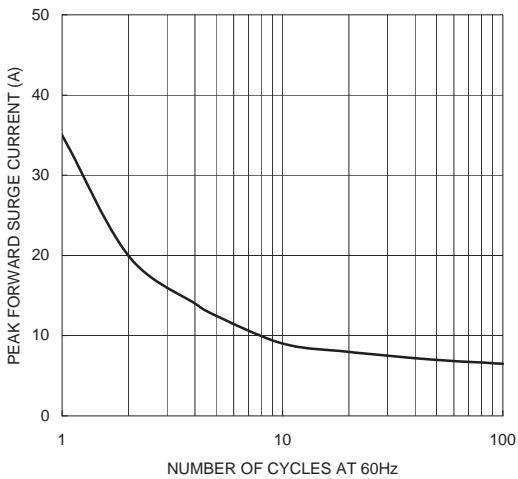


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

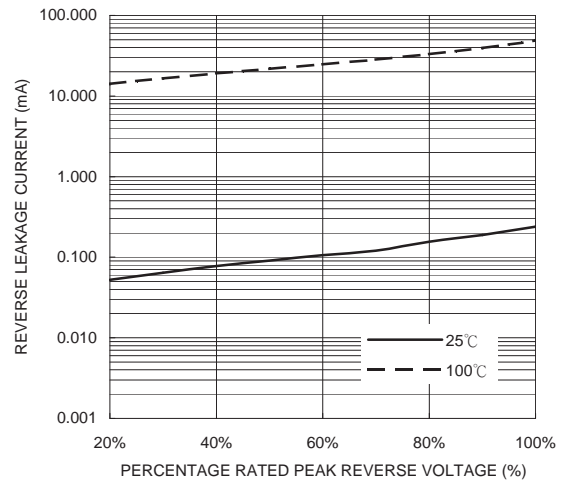


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

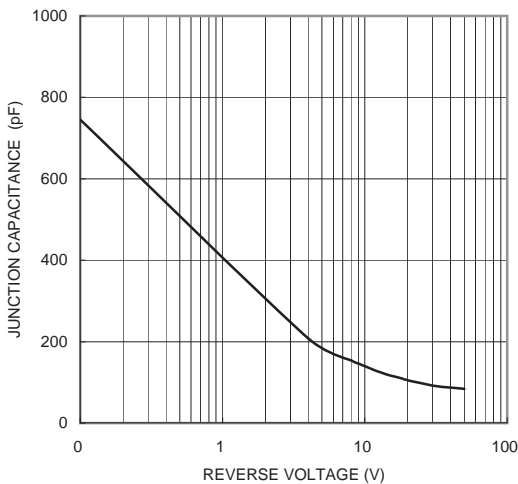


FIG. 5-TYPICAL JUNCTION CAPACITANCE