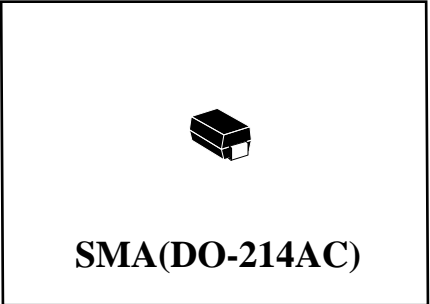


## Surface Mount Schottky Barrier Rectifiers

**(Pb)** Lead(Pb)-Free

**REVERSE VOLTAGE  
20 TO 200 VOLTS  
FORWARD CURRENT  
1.0 AMPERE**



### Features:

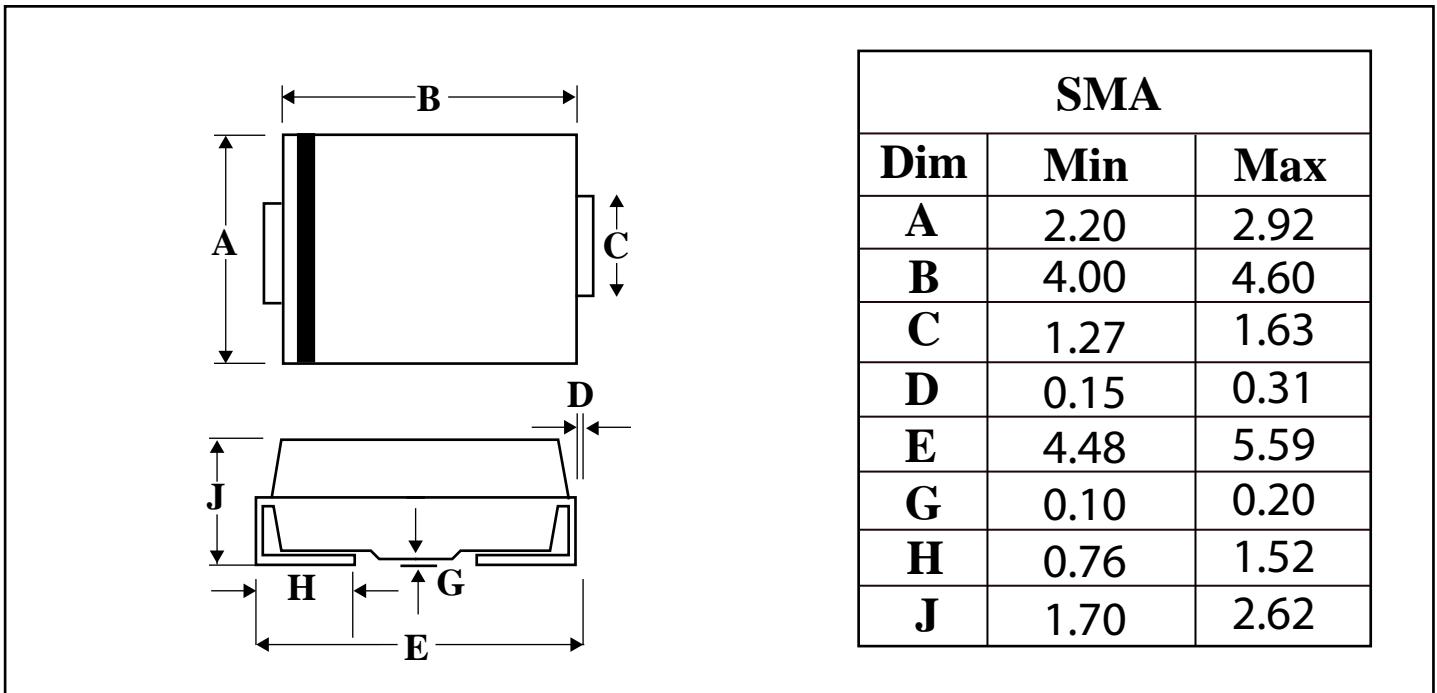
- \* Low profile package
- \* Ideal for automated placement
- \* Guard Ring for over voltage protection
- \* Low forward voltage drop
- \* Component in accordance to RoHS 2002/95/EC

### 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)

<b>Characteristic</b>	<b>Symbol</b>	<b>B120</b>	<b>B130</b>	<b>B140</b>	<b>B150</b>	<b>B160</b>	<b>B180</b>	<b>B1100</b>	<b>B1150</b>	<b>B1200</b>	<b>Unit</b>
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	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	30.0									A
Maximum Instantaneous At 1.0A @Tj=25 C°	VF	0.50			0.62		0.83		0.85	0.88	V
Maximum DC Reverse Current @Tj=25 C° At Rated DC Blocking Voltage @Tj=100 C°	IR	0.5 10					0.2 5				mA
Typical Junction Capacitance (Note 1)	CJ	70			60		50		35		Pf
Typical Thermal Resistance	RθJA RθJC	70 50									°C/W
Operating Temperature Range	TJ	-55 to+125							-55 to+150		°C
Storage Temperature Range	TSTG	-55 to+150									°C

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

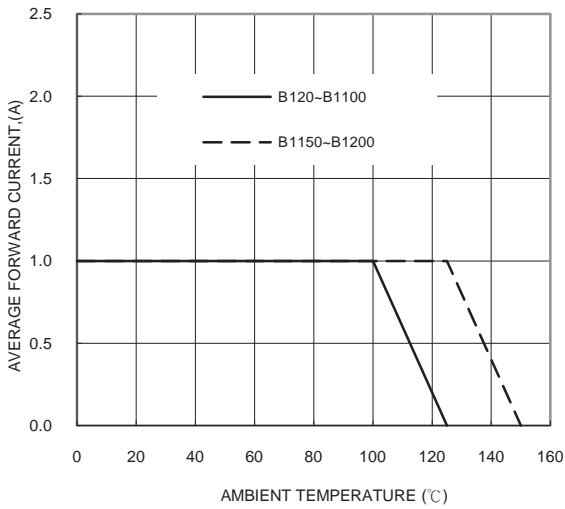


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

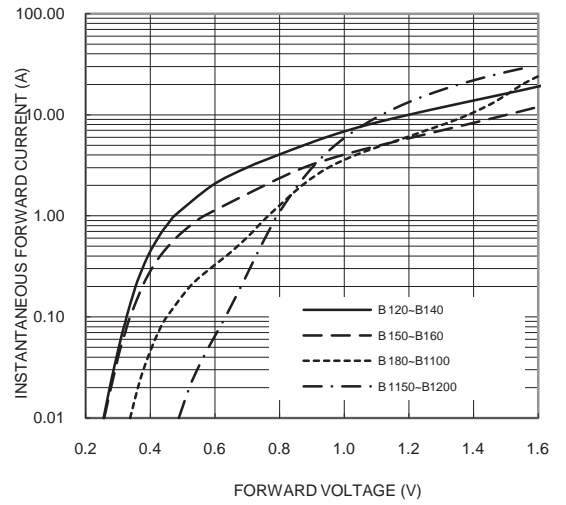


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

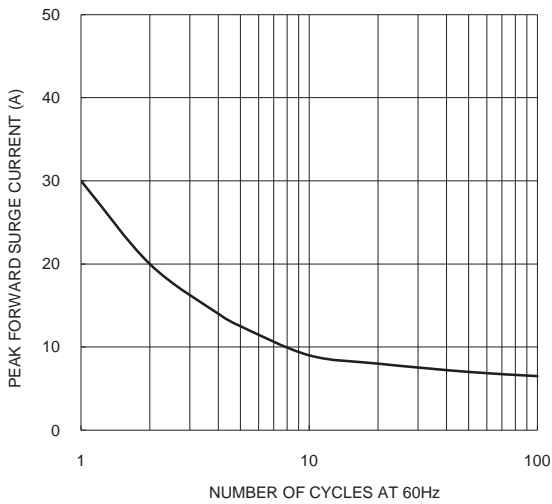


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

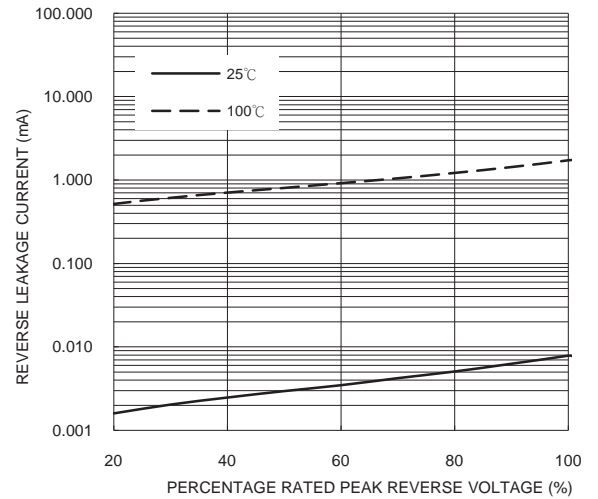


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

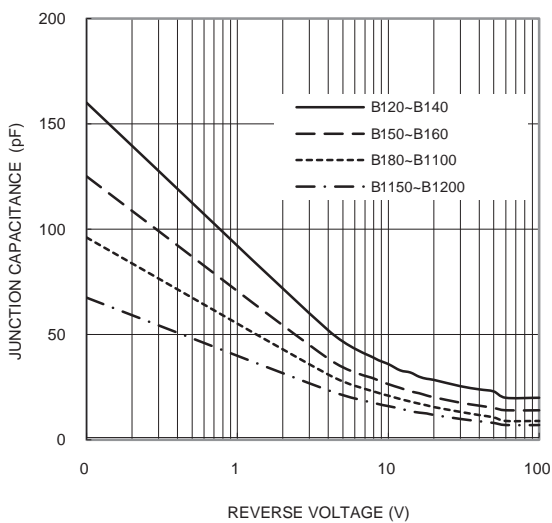


FIG. 5-TYPICAL JUNCTION CAPACITANCE