WEITRON

B120L thru B140L

Surface Mount Schottky Barrier Rectifiers

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



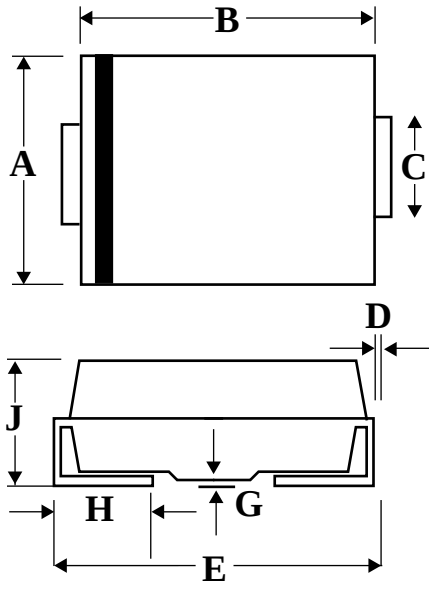
SMA(DO-214AC)

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



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

(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.

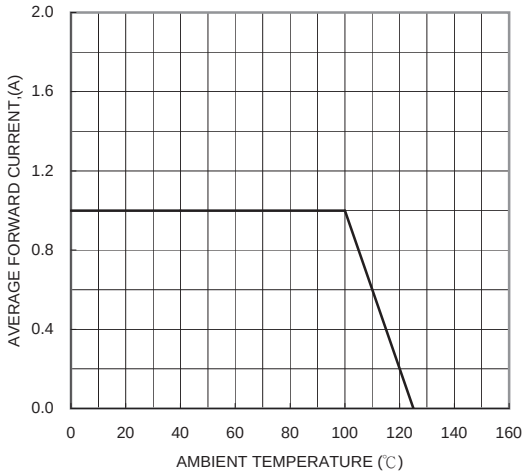


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

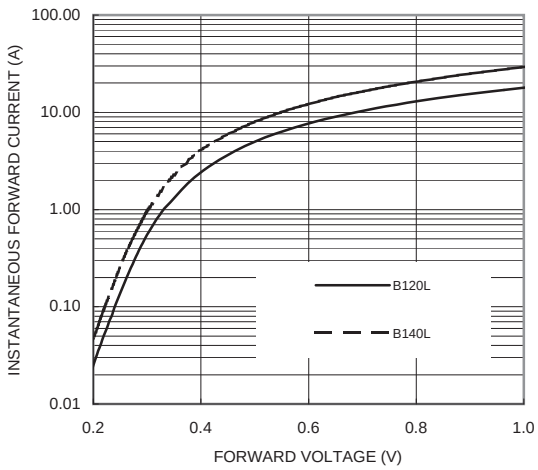


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

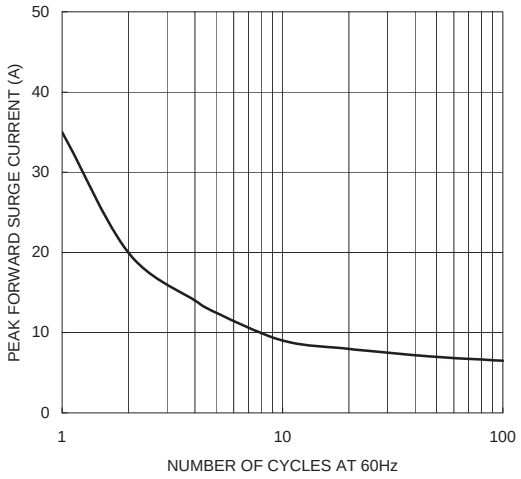


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

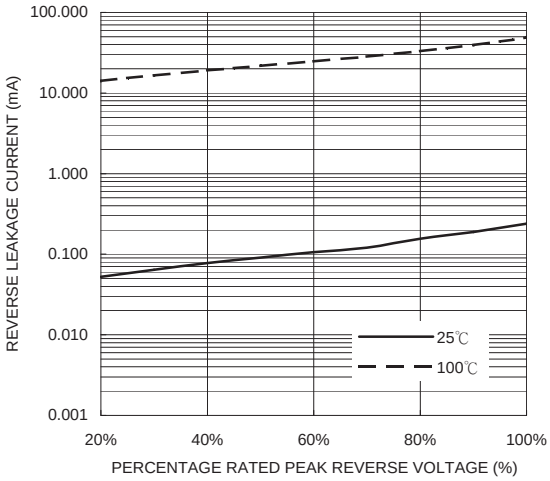


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

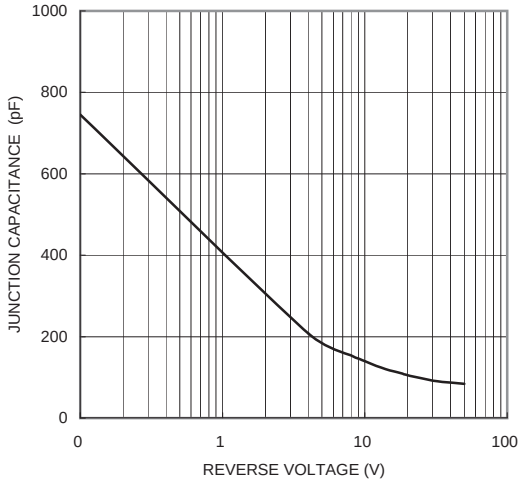


FIG. 5-TYPICAL JUNCTION CAPACITANCE