WEITRON

B170 thru B1100

Surface Mount Schottky Barrier Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
70 TO 100 VOLTS
FORWARD CURRENT
1.0 AMPERE

Features:

*Schottky Barrier Chip
*Ideally Suited for Automatic Assembly
*Low Power Loss, High Efficiency
*Surge Overload Rating to 30A Peak
*For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application



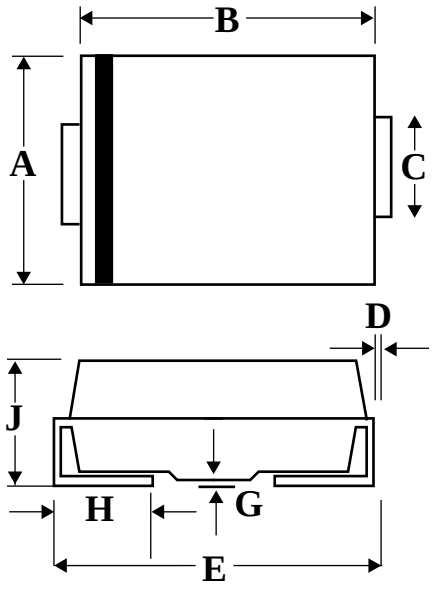
SMA(DO-214AC)

Mechanical Data

*Case : Molded Plastic
*Plastic Material: UL Flammability Classification Rating 94V-0
*Terminals: Solder Plated Terminal Solderable per MIL-STD-202, Method 208
*Polarity: Cathode Band
*Mounting Position: Any
*Weight: 0.064 grams(approx)

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

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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%.

Characteristic	Symbol	B170	B180	B190	B1100	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	V
Maximum RMS Voltage	VRMS	49	56	63	70	V
Maximum DC Blocking Voltage	VDC	70	80	90	100	V
Maximum Average Forward Rectified Current @TC=125°C	IF(AV)	1.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30				A
Maximum Instantaneous At 1.0A DC	VF	0.79				V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=100°C	IR	0.5 50				mA
Typical Junction Capacitance (Note 1)	CJ	80				PF
Typical Thermal Resistance (Note 2)	RθJL	30				°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.

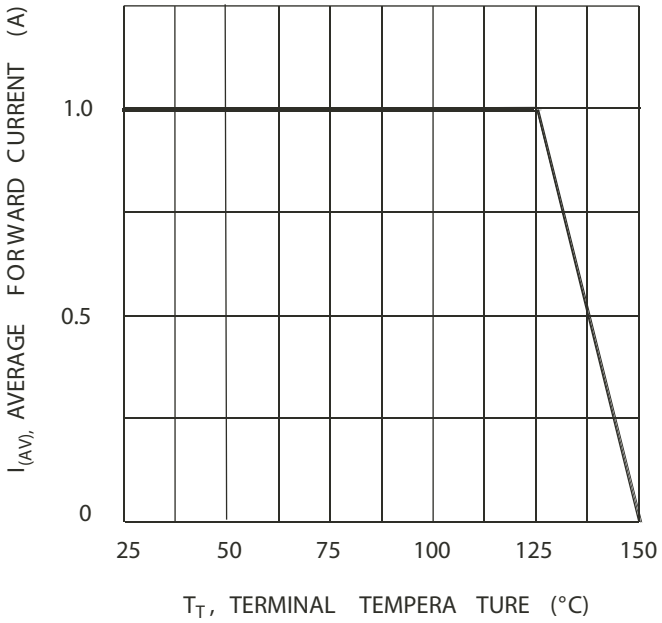


FIG.1 Forward Current Derating Curve

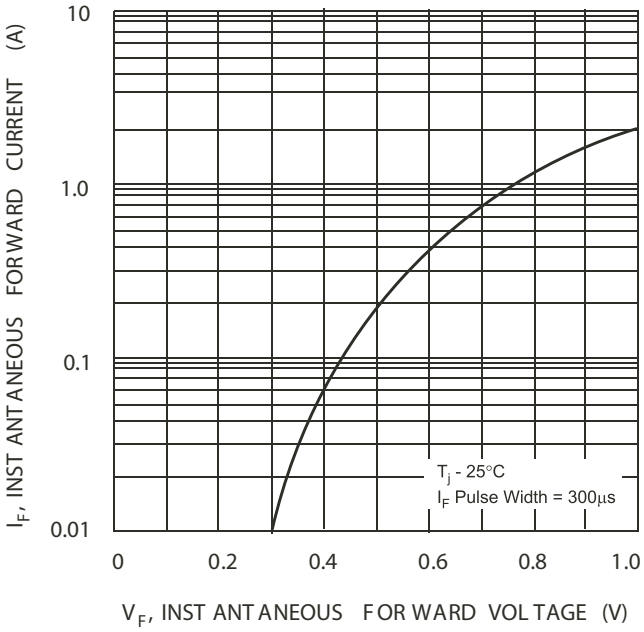


FIG.2 Typical Forward Characteristics

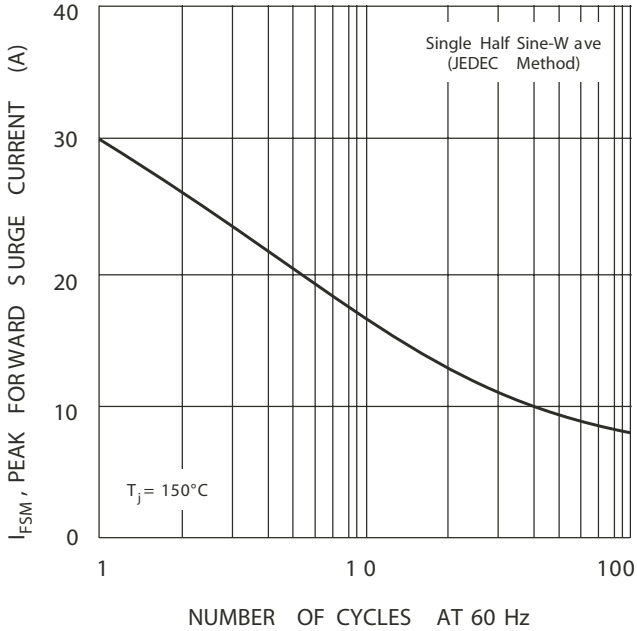


FIG.3 Max Non-Repetitive Peak Forward Surge Current

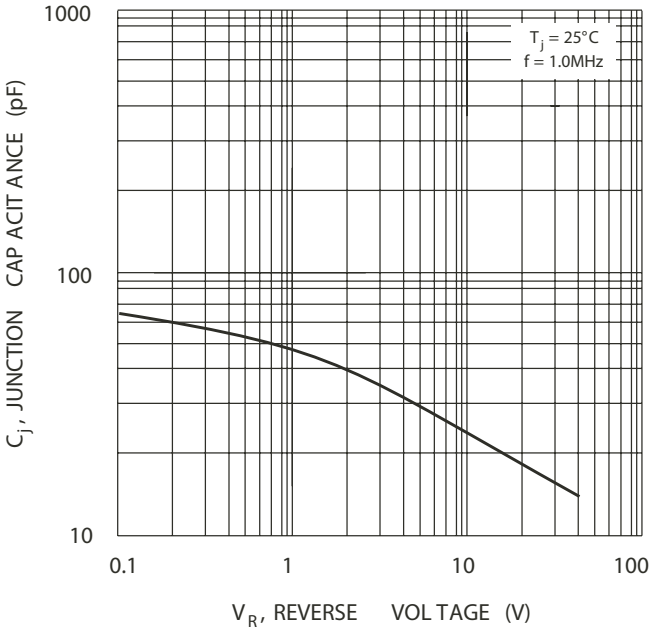


FIG.4 Typical Junction Capacitance