

RB152, RB155

SINGLE-PHASE SILICON BRIDGE RECTIFIER



康比電子
HORNBY ELECTRONIC

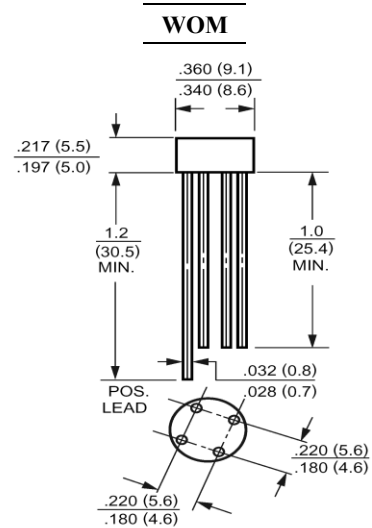
REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 2.0 AMPERE

FEATURES

- Surge overload rating: 40 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction
- Low forward voltage drop
- High temperature soldering guaranteed:
260°C for 10 seconds

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product
Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
Mounting position: Any
Weight: 0.05ounce, 1.3gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	RB152	RB155	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	600	Volts
Maximum RMS Voltage	V_{RMS}	70	420	Volts
Maximum DC Blocking Voltage	V_{DC}	100	600	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A=50$	$I_{(AV)}$	2.0		Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50		Amp
Maximum Forward Voltage at 2.0A DC and 25	V_F	1.1		Volts
Maximum Reverse Current at $T_A=25$ at Rated DC Blocking Voltage $T_A=100$	I_R	5.0 500		uAmp
Typical Junction Capacitance (Note 1)	C_J	40	20	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40		/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15		/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +125		

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

2W005M THRU 2W10M

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

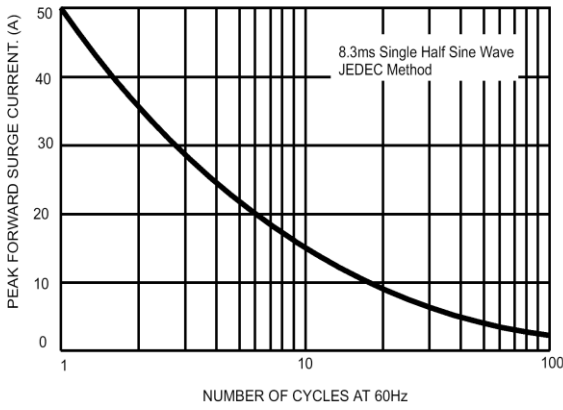


FIG.2- MAXIMUM CURRENT DERATING CURVE OUTPUT RECTIFIED CURRENT

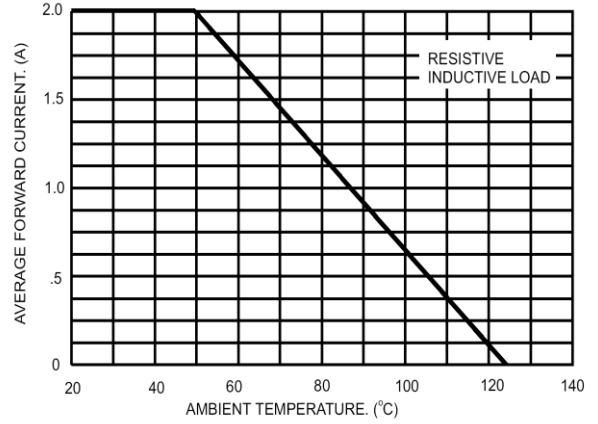


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

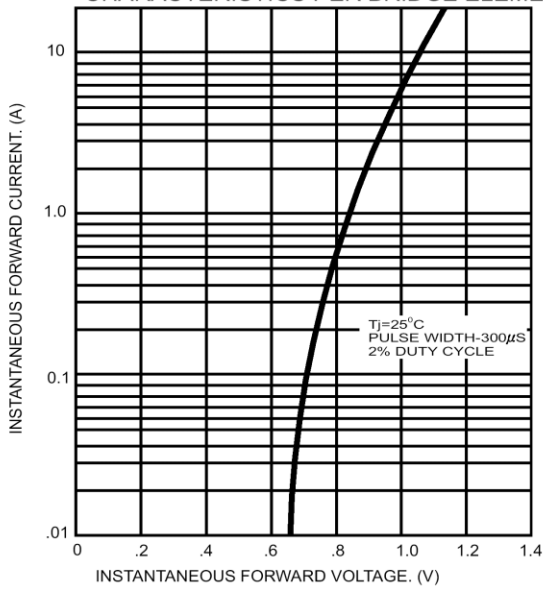


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

