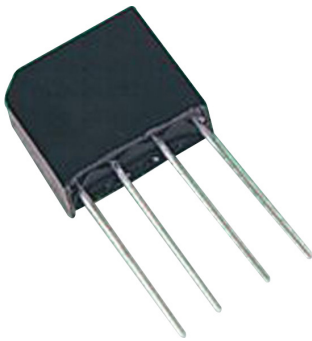


Single Phase Bridge Rectifier



Features

- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overloads rating: 200 Amps peak

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	Values	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Bridge Input Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current For Resistive Load at $T_A=50^\circ\text{C}$	I_{AV}	4	A
Peak One Cycle Surge Overload Current	I_{FSM}	200	A
Maximum Forward Voltage per Bridge Element at 4A	V_F	1.1	V
Maximum Reverse Leakage Current at Rated @ $T_A=25^\circ\text{C}$ DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	10 1000	μA
I^2t Rating for fusing ($t < 8.35\text{ms}$)	I^2t	93	A^2t
Typical Thermal Resistance per leg (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	19 2.4	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Notes:

1. Thermal resistance from junction to ambient with units mounted on 0.3" x 0.3" x 0.11" thick (7.5cm x 7.5cm x 0.3cm) AL Plate.
2. Thermal resistance from junction to lead with units mounted on P.C.B with 0.375" (9.5mm) lead length and 0.5" x 0.5" (12mm x 12mm) copper pads.

Rating and Characteristic Curves

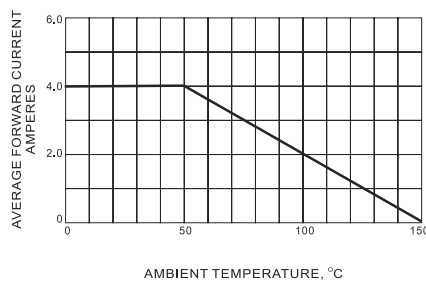


FIG.1 Derating Curve For Output Rectified Current

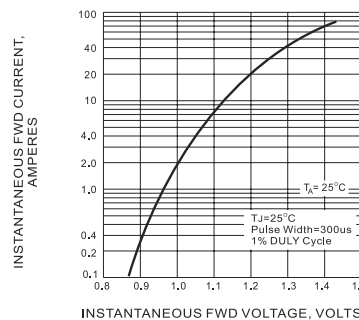


FIG.2 Typical Instantaneous Forward Characteristics



Single Phase Bridge Rectifier

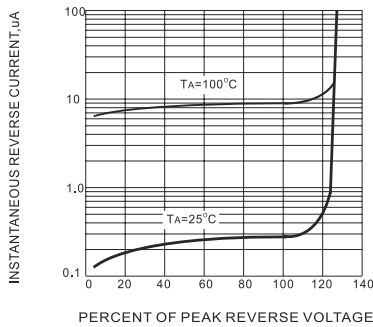


FIG.3 Typical Reverse Characteristics

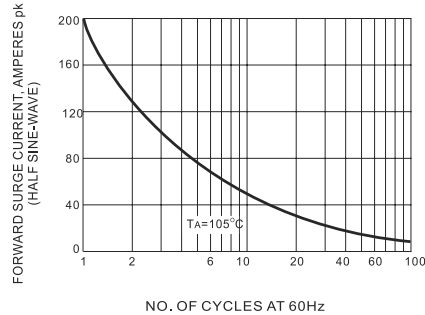
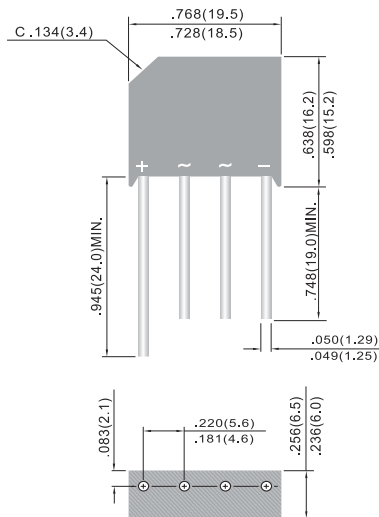


FIG.4 Max Non-Repetitive Surge Current

Dimension



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Single Phase Bridge Rectifier, 4A, 600V	MCFL406-RH

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