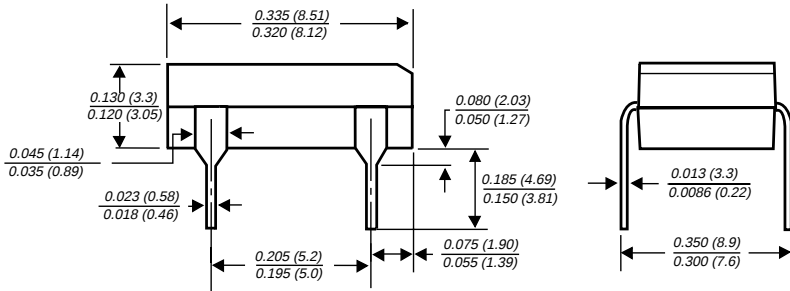
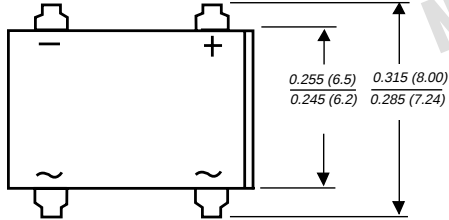




Case Style DFM



Dimensions in inches and (millimeters)

Reverse Voltage 50 and 1000V
Forward Current 1.0A

Features

- This series is UL listed under the Recognized Component Index, file number E54214
- Plastic package used has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High surge overload rating of 30 Amperes peak
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds, at 5 lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body over passivated junctions

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols as marked on body

Mounting Position: Any

Weight: 0.04 oz., 1.0g

Packaging codes/options: 45/50 ea.per Bulk Tube

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	DF 005MA	DF 01MA	DF 02MA	DF 04MA	DF 06MA	DF 08MA	DF 10MA	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at T _A = 40°C	I _{F(AV)}	1.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Rating for fusing (t < 8.3ms)	I ² t	4.5							A ² sec
Typical thermal resistance per leg (Note 1)	R _{θJA} R _{θJL}	40 15							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150							°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	DF 005MA	DF 01MA	DF 02MA	DF 04MA	DF 06MA	DF 08MA	DF 10MA	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	V _F	1.1							V
Maximum reverse current T _A = 25°C at rated DC blocking voltage per leg T _A = 125°C	I _R	5.0 500							μA
Typical junction capacitance per leg at 4.0V, 1MHz	C _J	25							pF

Note: (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Miniature Glass Passivated Single-Phase Bridge Rectifier

Fig. 1 - Derating Curve Output Rectified Current

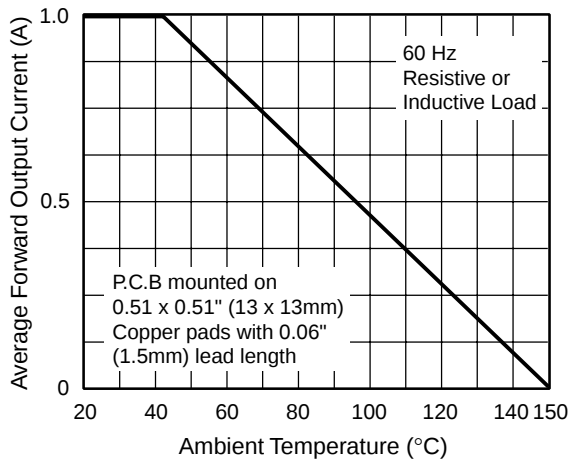


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

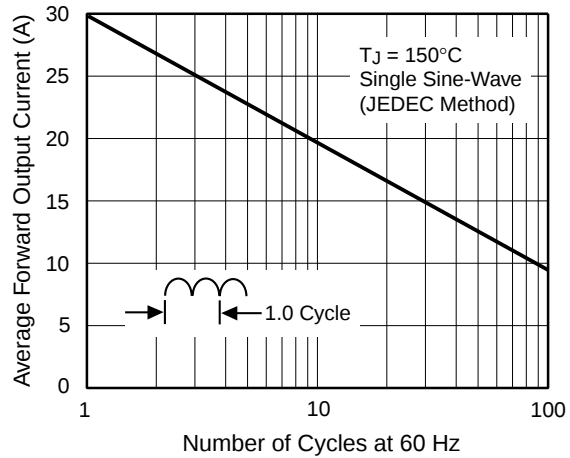


Fig. 3 - Typical Forward Characteristics Per Leg

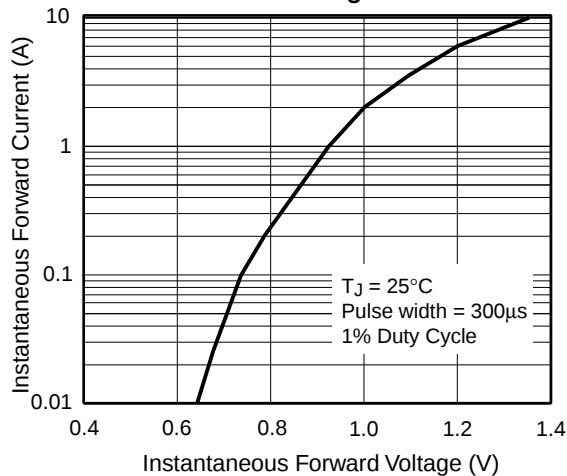


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

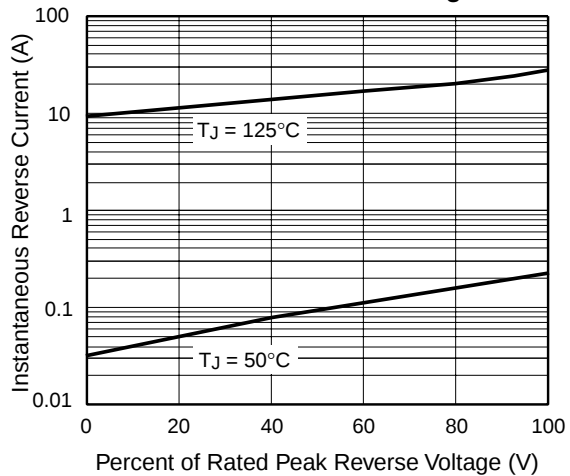


Fig. 5 - Typical Junction Capacitance Per Leg

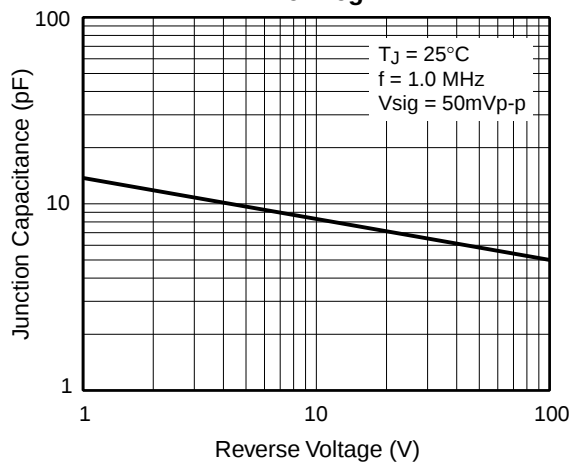


Fig. 6 - Typical Transient Thermal Impedance

