

Bridge Rectifier

DF06M

600V / 1A

DATASHEET

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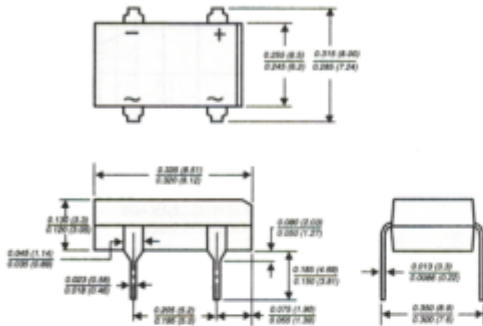
Source: General Semiconductor Databook 1998

DF005M THRU DF10M

MINIATURE GLASS PASSIVATED SINGLE-PHASE-BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Case Style DFM



Dimensions in inches and (millimeters)

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 junctions
- ◆ Surge overload rating of 50 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 lead solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on body
Mounting Position: Any
Weight: 0.04 ounce, 1.0 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	DF 005M	DF 01M	DF 02M	DF 04M	DF 06M	DF 08M	DF 10M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward output rectified current at TA=40°C	IAV	1.0							Amp
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0							Amps
Rating for fusing (t < 8.3ms)	IFt	10.0							A²sec
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.1							Volts
Maximum reverse current at rated DC blocking voltage per leg	IR	5.0 500.0							µA
Typical junction capacitance per leg (NOTE 1)	CJ	25.0							pF
Typical thermal resistance per leg (NOTE 2)	REJA REJL	40.0 15.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to +150							°C

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) 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 CHARACTERISTICS CURVES DF005M THRU DF10M

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

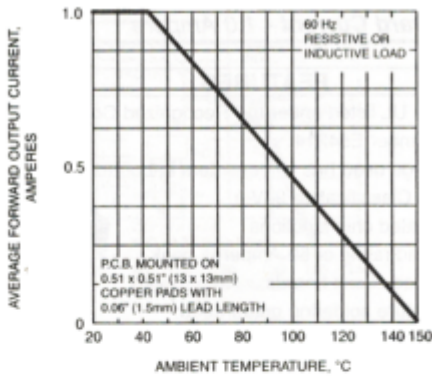


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

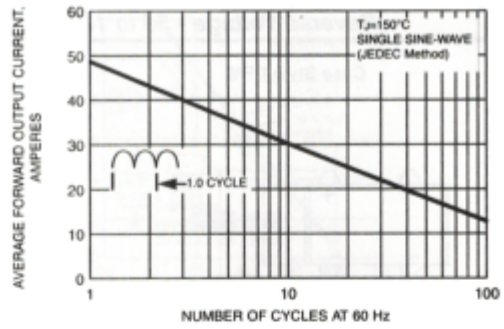


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

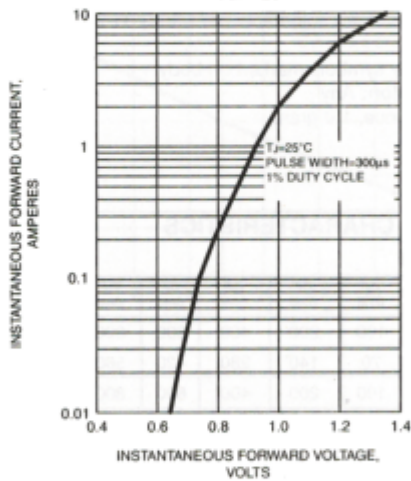


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

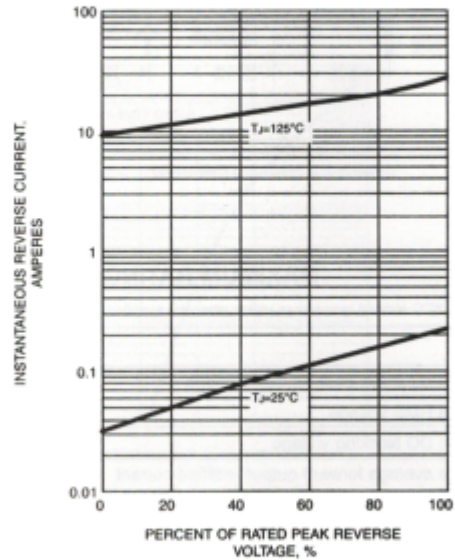


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

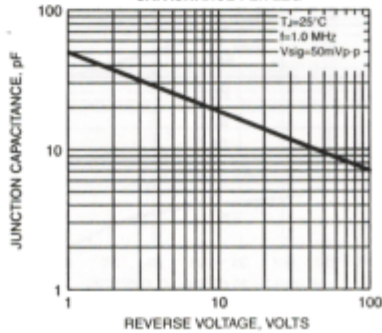


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

