



DF005L THRU DF10L

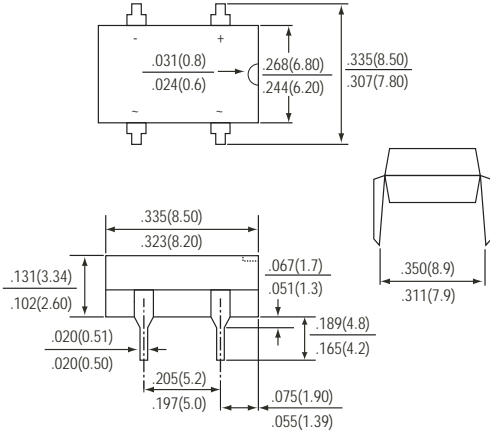
SINTERED GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

PATENTED

DFML



*Dimensions in inches and (millimeters)

SuperBridge with GPRC inside

SUPEREX IITM



FEATURES

- * Internal Constructure with GPRC (Glass Passivated Rectifier Chip) inside
- * Diffused Junction
- * Low Forward Voltage Drop, High Current Capability
- * High Surge Current Capability
- * Designed for Surface Mount Application
- * Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : Molded Plastic
Terminals : Plated Leads, solderable per MIL-STD-750, Method 2026
Polarity : As marked on Case
Weight : 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	DF005L	DF01L	DF02L	DF04L	DF06L	DF08L	DF10L	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 rectified current @ TA=40°C	I(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							Amps
Maximum instantaneous forward voltage @ IF=1.0 A	VF	1.1							Volts
Maximum DC reverse current @TC=25°C at rated DC blocking voltage @TC=125°C	IR	5 500							uA
I ² t rating for fusing (t < 8.3ms)	I ² t	10.4							A ² s
Typical junction capacitance per element (NOTE 1)	CJ	25							pF
Typical thermal resistance, junction to ambient (NOTE 2)	R θJA	40							°C / W
Operating junction and storage temperature range	TJ,TSTG	-55 to +175							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 (2) Thermal resistance from junction to ambient mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES DF005L THRU DF10L

FIG.1 - FORWARD CURRENT DERATING CURVE

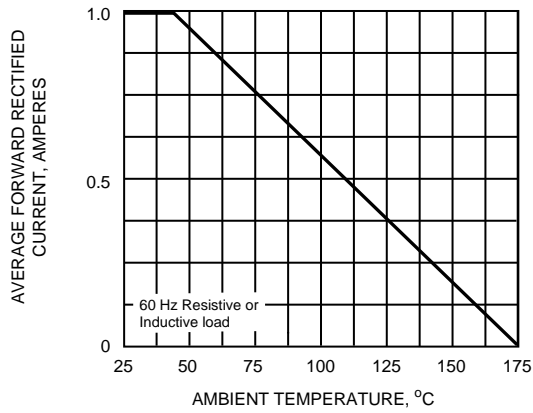


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

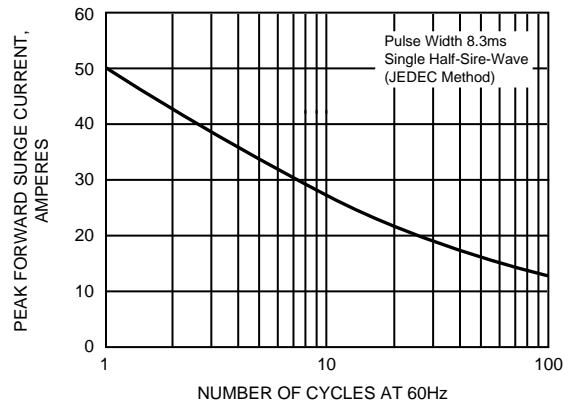


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

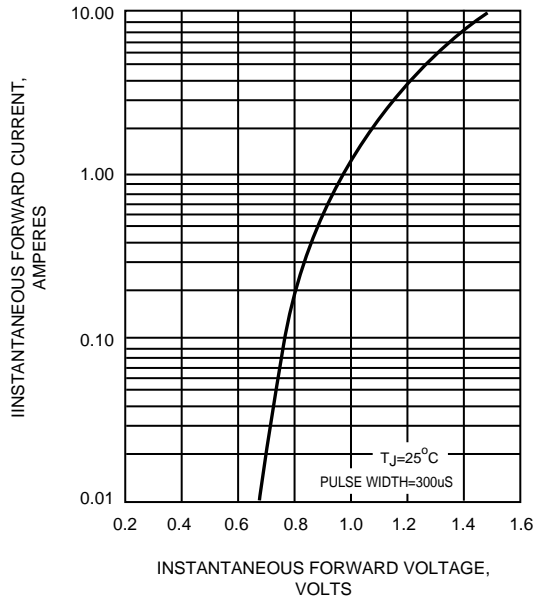


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

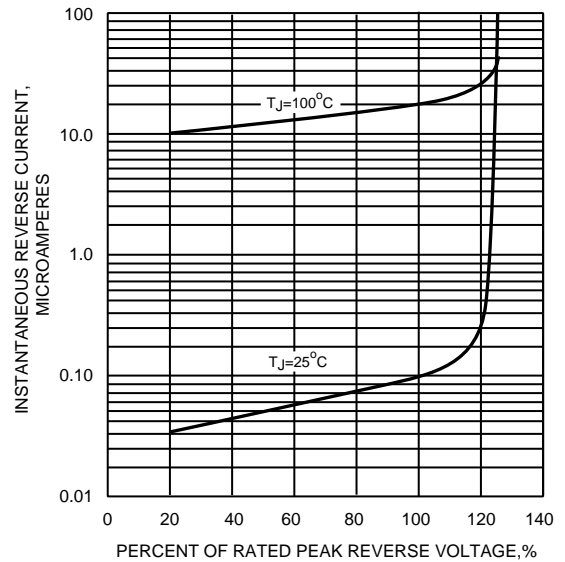


FIG.5 - TYPICAL JUNCTION CAPACITANCE

