



DF1502S THRU DF1510S

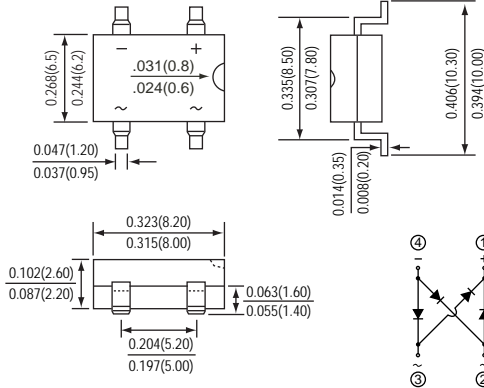
SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 1.5 Amperes



DFS



*Dimensions in inches and (millimeters)

FEATURES

- * Glass passivated chip junctions
- * 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 : Tin Plated, 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	DF1502S	DF1504S	DF1506S	DF1508S	DF1510S	UNITS
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
Maximum average forward rectified current @ TA=40°C	I(AV)	1.5					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=1.5 A	VF	1.1					Volts
Maximum DC reverse current @TC=25°C at rated DC blocking voltage @TC=125°C	IR	5 500					uA
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 +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 (2) Thermal resistance from junction to ambient measured on P.C.B. with 5.0*0.5" (13*13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES DF1502S THRU DF1510S

FIG.1 - FORWARD CURRENT DERATING CURVE

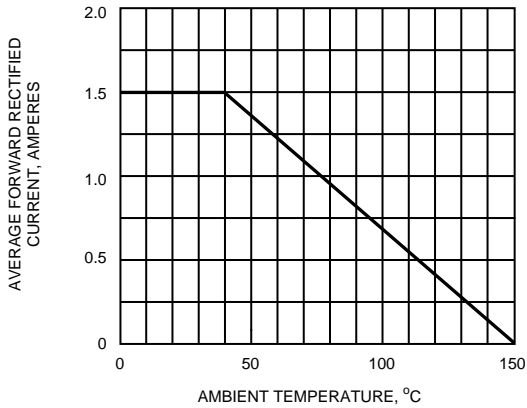
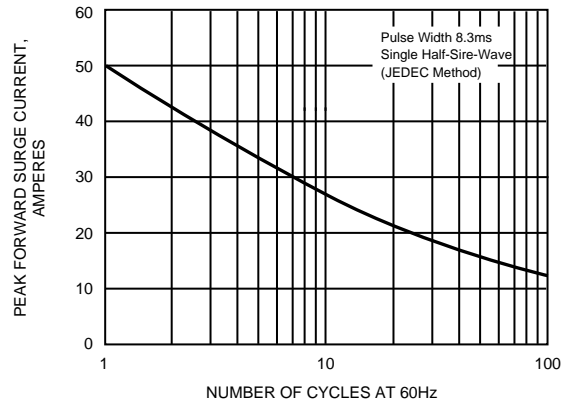


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



60 Hz Resistive or Inductive load

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

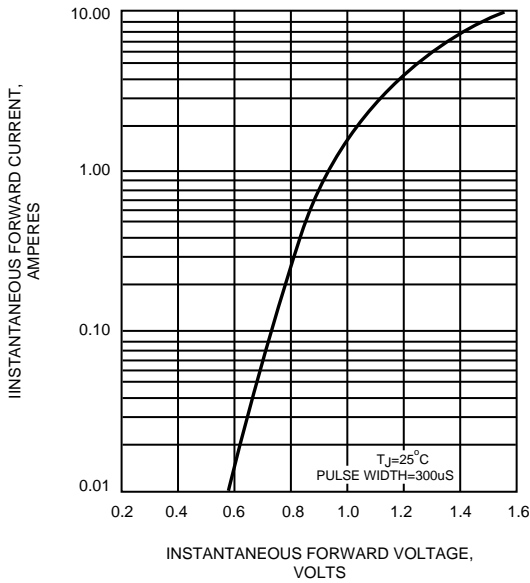


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

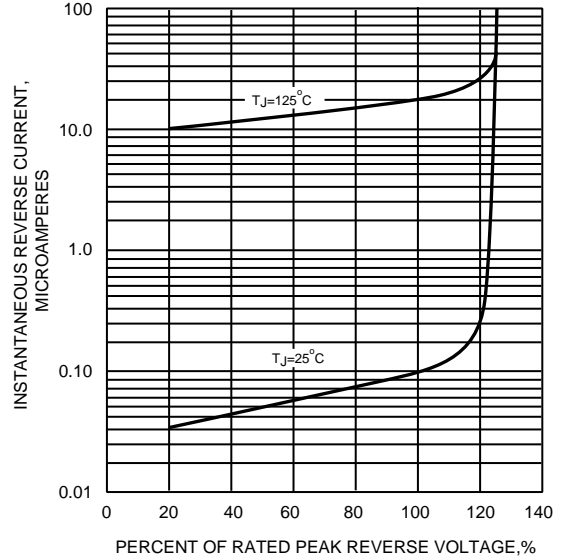


FIG.5 - TYPICAL JUNCTION CAPACITANCE

