



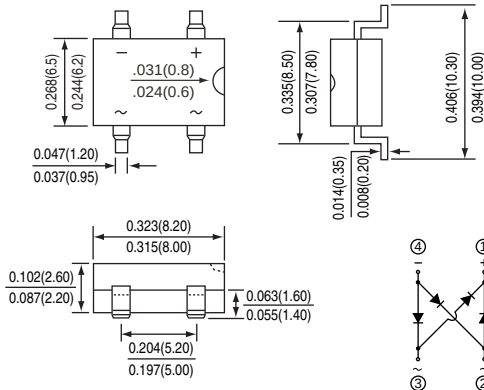
DF1502S THRU DF1510S

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	V _{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	Volts
Maximum average forward rectified current @ T _A =40°C	I _{AV}	1.5					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					Amps
Maximum instantaneous forward voltage @ I _F =1.5 A	V _F	1.1					Volts
Maximum DC reverse current @ T _C =25°C at rated DC blocking voltage @ T _C =125°C	I _R	5 500					uA
Typical junction capacitance per element (NOTE 1)	C _J	25					pF
Typical thermal resistance, junction to ambient (NOTE 2)	R _{θJA}	40					°C / W
Operating junction and storage temperature range	T _J ,T _{STG}	-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

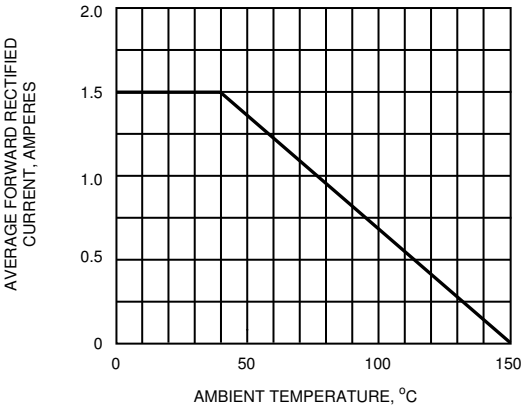
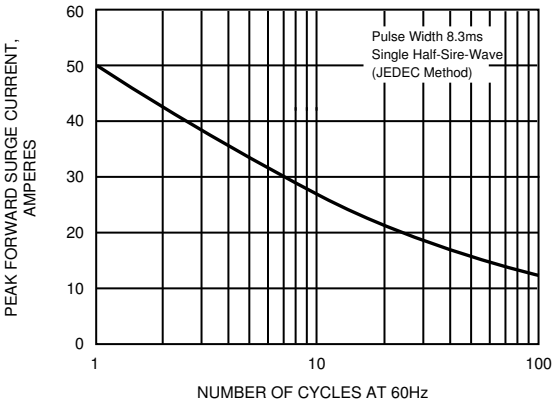


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



60 Hz Resistive or Inductive load

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

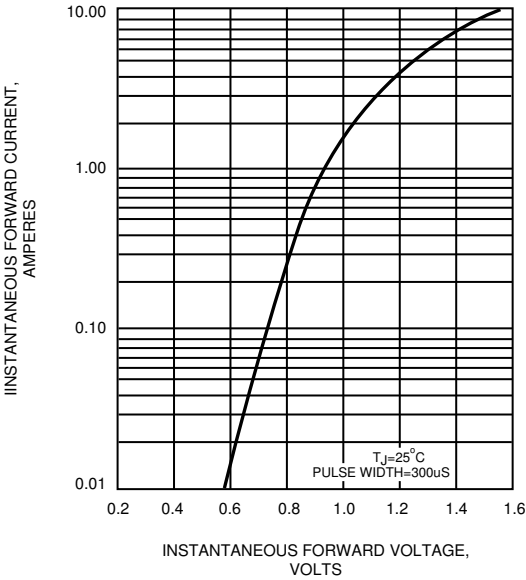


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

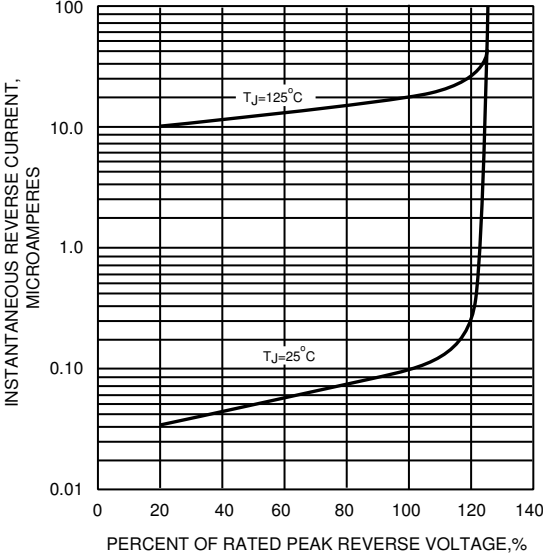


FIG.5 - TYPICAL JUNCTION CAPACITANCE

