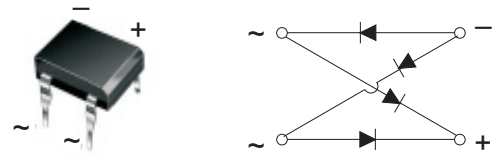




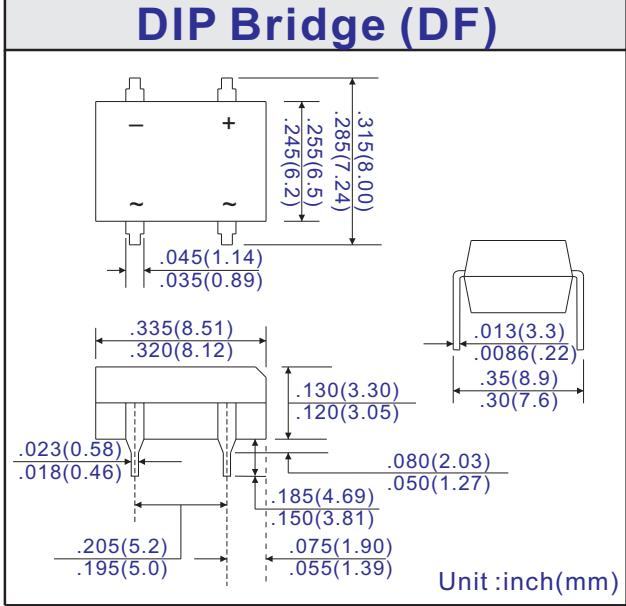
DF1500 thru DF1510

1.5A Glass Passivated Single-Phase Bridge Rectifiers - 50V-1000V



- ### FEATURES
- Surge overload ratings to 50 amperes peak
 - Ideal for & save space on printed circuit board
 - Recommended for non-automatic applications
 - Applicable for automatic insertion
 - Reliable low cost construction utilizing molded plastic technique results in inexpensive product
 - Glass passivated chip junction
 - Lead-free parts, meet RoHS requirements

- ### MECHANICAL DATA
- Case: DF plastic molded case
 - Epoxy: UL94-V0 rated flame retardant
 - Terminals: Solderable per MIL-STD-750 Method 2026
 - Polarity: As marked on body
 - Mounting Position: Any
 - Weight: 0.04 ounces, 1.0 grams



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

DF-Symbols	1500	1501	1502	1504	1506	1508	1510	Units	
Maximum Recurrent 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 Output Current at TA=40°C , See Figure 1	I(AV)	1.5							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0							Amps
Maximum Instantaneous Forward Voltage Drop Per Leg at 1.5A	VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	5.0 500.0							µA
Rating for fusing (t<8.3mS) at TJ=100°C	I ² t	10.0							A ² sec
Typical Thermal Resistance Per Leg (Note 1)	RθJA RθJL	40 15							°C/W
Typical Junction Capacitance per Leg (Note 2)	CJ	25							pF
Operating Junction Temperature Range	TJ,	-55 ~ +150							°C
Storage Temperature Range	TSTG	-55 ~ +150							°C

Note 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. 0.5x0.5" (13x13mm) copper pad.
 2. Measure at 10MHz and applied reverse voltage of 4.0Volts.

