

DF15005 thru DF1510

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

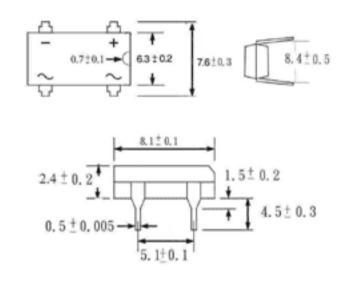
REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.5 Amperes

FEATURES

- · Rating to 1000V PRV
- · Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	DF 15005	DF 1501	DF 1502	DF 1504	DF 1506	DF 1508	DF 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Vpc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40°C	I(AV)	1.5							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	İFSM	50							А
Maximum Forward Voltage at 1.5A DC	VF	1.1						V	
Maximum DC Reverse Current @TJ= 25 °C at Rated DC Blocking Voltage @TJ=125°C	IR	10 500							uA
I t Rating for fusing (t<8.3ms)	J ² <u>t</u>	10.4							A ² S
Typical Junction Capacitance per element (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	Reja	40						°C/W	
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tsts	-55 to +150							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Thermal resistance from junction to ambient mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads.