DF15005S thru DF1510S

SURFACE MOUNT
GLASS PASSIVATED
BRIDGE RECTIFIERS
SINGLE-PHASE GLASS BRIDGE



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



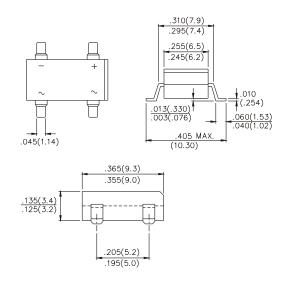
FEATURES

- Rating to 1000V PRV
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- · Lead in plated copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

Polarity: as marked on bodyWeight: 0.02 ounces, 0.38 grams

Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

or capacitive load, delate earliest by 20 %.		DF 15005S	DF 1501S	DF 1502S	DF 1504S	DF 1506S	DF 1508S	DF 1510S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current @ T _A =40°C	V _(AV)				1.5				А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							A
Maximum DC Forward Voltage at ADC	V _F	1.1							٧
Maximum DC Reverse Current @ T _J =25°C at rated DC Blocking Voltage @ T _J =125°C	I _R	10							μΑ
					500				μ A
I ² t Rating for fusing (t<8.3ms)	l ² t	10.4							A ² S
Typical Junction Capacitance per element (Note1)	СЈ	25						РF	
Typical Thermal Resistance (Note 2)	$R\theta JC$	40						°C/W	
Operating Temperature Range	T _J	-55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +150						°C	

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

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RATING AND CHARACTERISTICS CURVES DF15005S THRU DF1510S

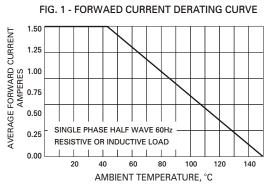


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

50

40

40

Single Half-Sine-Wave (JEDEC METHOD)

1 2 5 10 20 50 100

NUMBER OF CYCLES AT 60Hz

