

# DBF302S THRU DBF307S

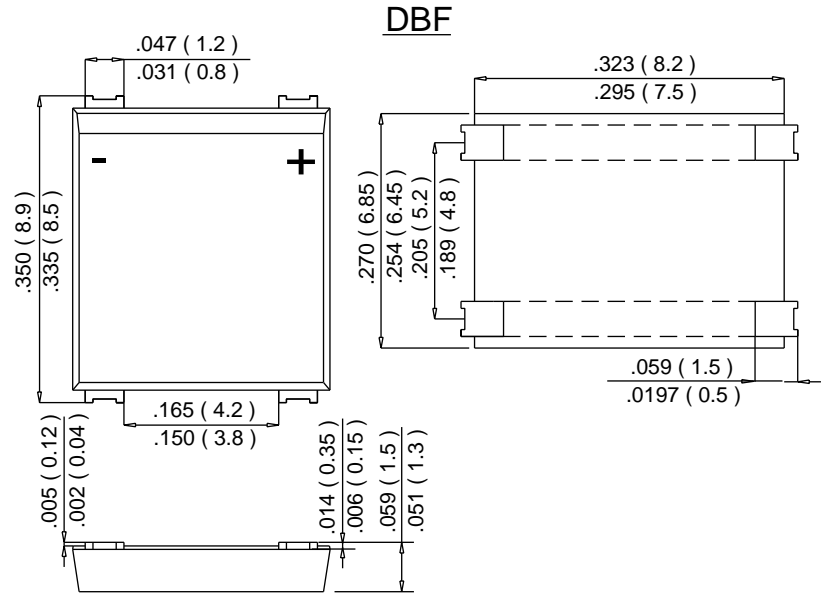
## SINGLE PHASE 3.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

### Features

- " Glass Passivated Die Construction
- " Low leakage
- " Ideal for printed circuit board
- " Surge overload rating-110A peak
- " Designed for Surface Mount Application
- " Plastic Material-UL Flammability 94V-0

### Mechanical Data

- " Case: DBF, molded plastic
- " Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- " Polarity:As Marked on Case
- " Mounting Position:Any
- " Marking:Type Number



dimensions in inches and (millimeters)

### 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%.

TYPE NUMBER	SYMBOL	(%)	DBF303S	DBF304S	DBF305S	DBF306S	DBF307S	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	$V_{RWM}$							
DC Blocking Voltage	$V_{DC}$							
RMS Reverse Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_C=100^\circ C$	$I_{F(AV)}$	3.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	110						A
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	50.215						$A^2s$
Forward Voltage per element @ $I_F=1.5A$ @ $I_F=3.0A$	$V_{FM}$	0.95 1.0						V
Peak Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage @ $T_J=125^\circ C$	$I_R$	5.0 100						$\mu A$
Typical Junction Capacitance (Note 2)	$C_J$	30						pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	15						$^\circ C/W$
	$R_{\theta JC}$	5						
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150						$^\circ C$

Note: 1. Mounted on glass epoxy PC board with 1.3mm solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Mounted on 15 mm\*12 mm\*1.6mmAL pad attach 195 mm\*110 mm\*10 mm steel plate

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