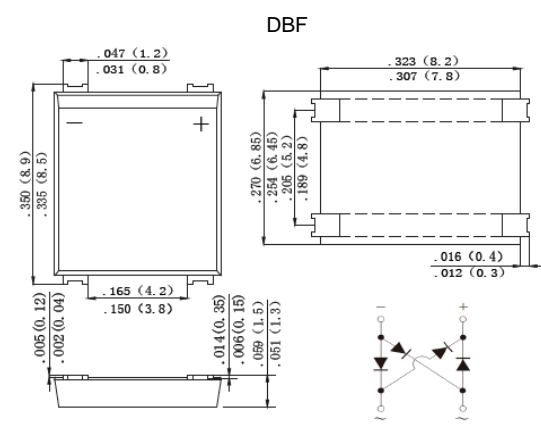


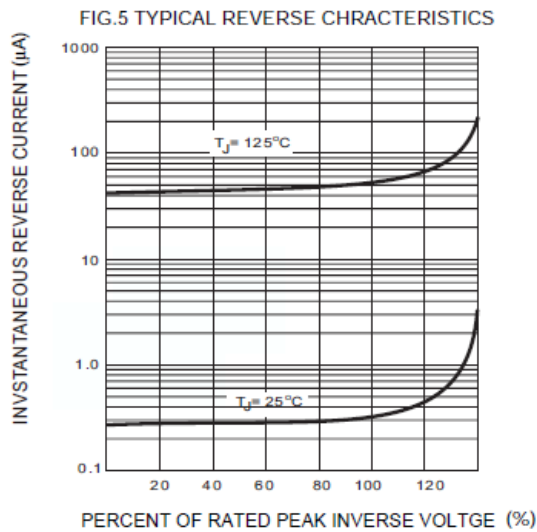
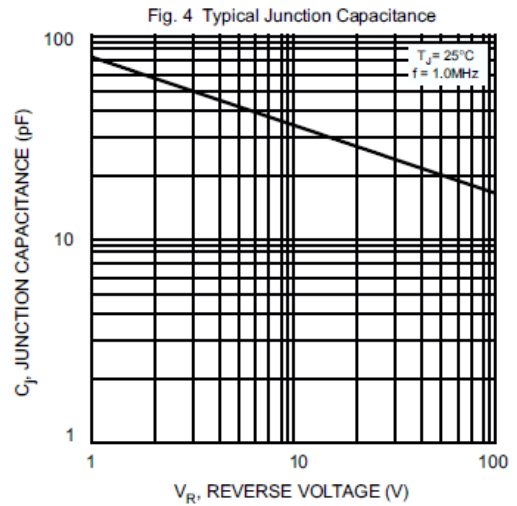
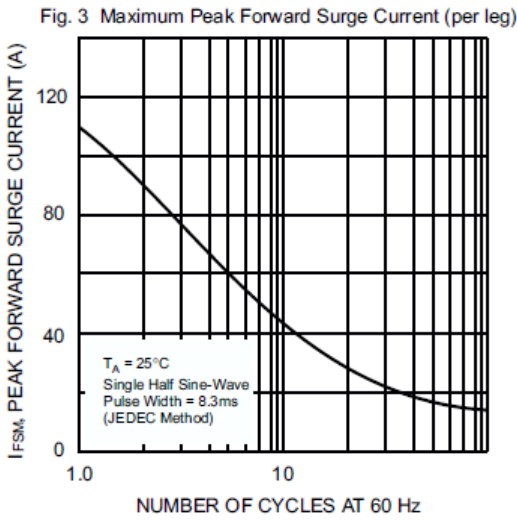
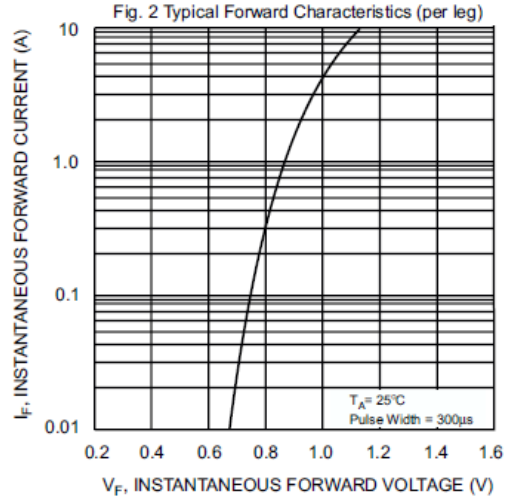
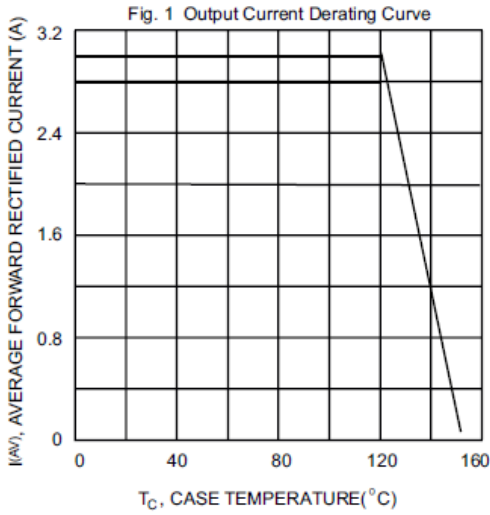
<p><b>GLASS PASSIVATED BRIDGE RECTIFIERS</b></p>	<p><b>REVERSE VOLTAGE 100 to 1000 Volts FORWARD CURRENT 3 Amperes</b></p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Glass Passivated Die Construction</li> <li>• Low leakage</li> <li>• Ideal for printed circuit board</li> <li>• Surge overload rating- 110A peak</li> <li>• Designed for Surface Mount Application</li> <li>• Plastic Material-UL Flammability 94V-0</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: DBF, molded plastic</li> <li>• Polarity: As marked on Body</li> <li>• Mounting position: Any</li> </ul>	 <p style="text-align: center;">DBF</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

**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%

Characteristics	Symbol	DBF301	DBF302	DBF304	DBF306	DBF308	DBF310	Unit	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @ $T_C=120^\circ\text{C}$ (Note 1)	$I_{(AV)}$	3						A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC)	$I_{FSM}$	110						A	
Peak Forward Voltage Drop Per element at $I_F=1.5\text{A}$ at $I_F=3\text{A}$	$V_F$					0.95 1.0			V
Maximum Reverse Current at Rated DC Blocking Voltage @ $T_A=25^\circ\text{C}$ @ $T_A=125^\circ\text{C}$	$I_R$					5 500			$\mu\text{A}$
$I^2t$ Rating for Fusing ( $1\text{ms} \leq t \leq 8.3\text{ms}$ )	$I^2t$					50.215			$\text{A}^2\text{s}$
Typical Junction Capacitance per leg (Note 2)	$C_J$					45			pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$ $R_{\theta JC}$					15 5			$^\circ\text{C/W}$
Junction and Storage Temperature Range	$T_J, T_{STG}$					-55 to +150		$^\circ\text{C}$	

Note:  
1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
3. Mounted on 15 mm\*12 mm\*1.6 mmAL pad attach 195 mm\*110 mm\*10 mm steel plate

**Rating and Characteristic Curves**



**FIG.6 MOUNTING PAD LAYOUT**

