

DBF251 THRU DBF2510

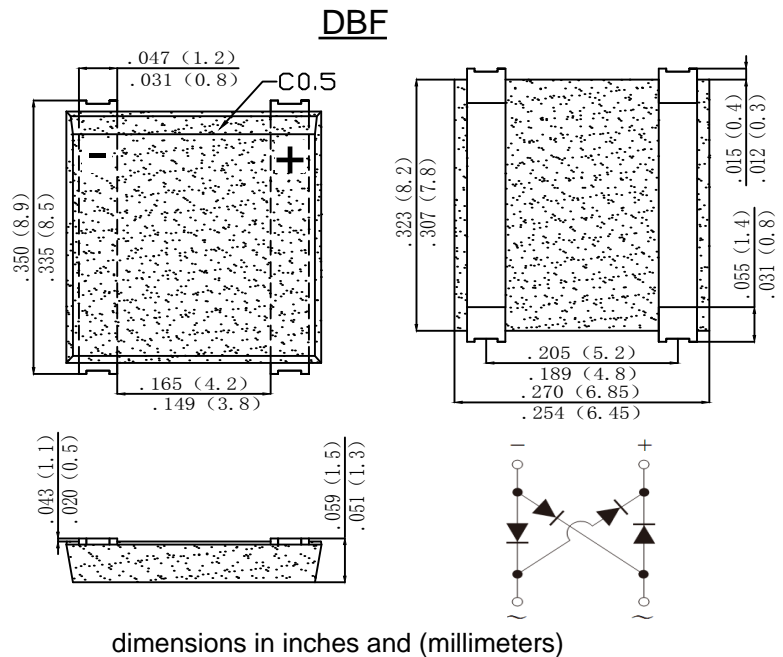
SINGLE PHASE 2.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-120A 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

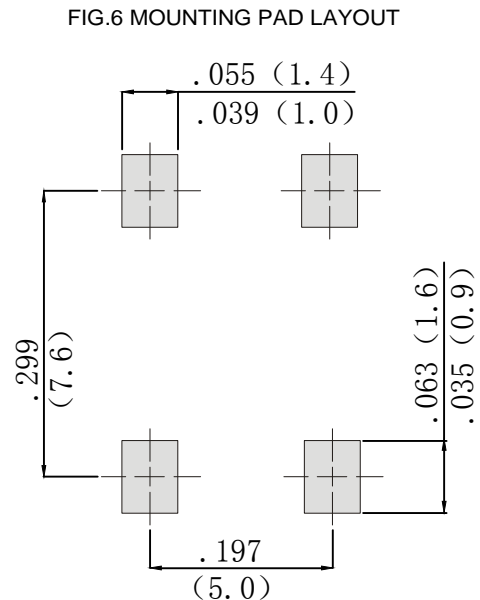
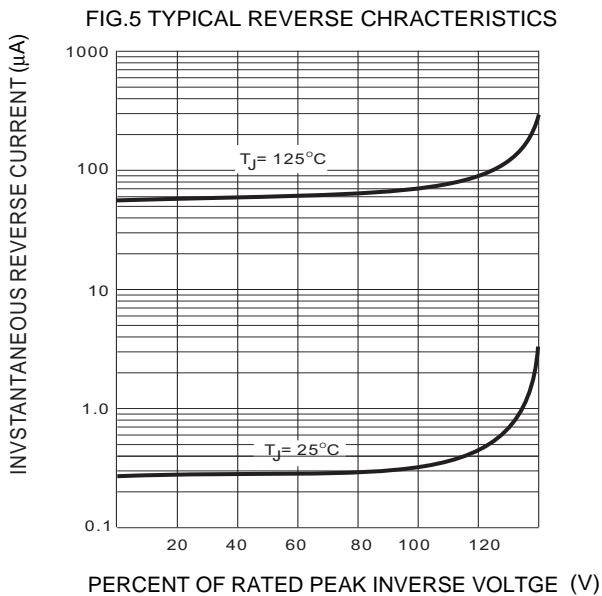
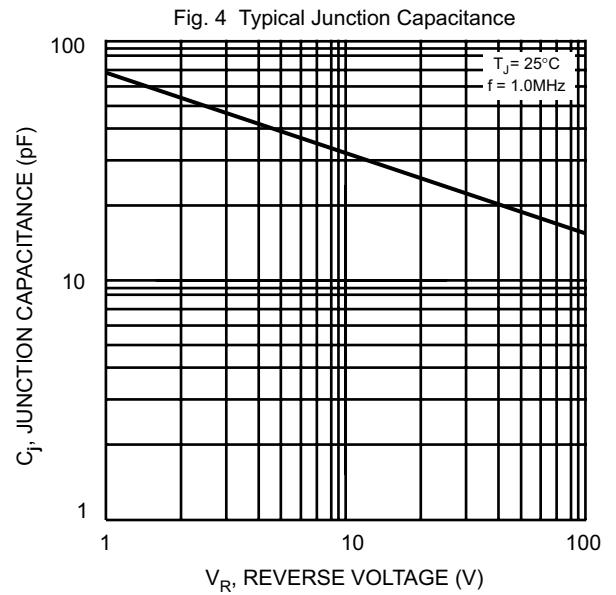
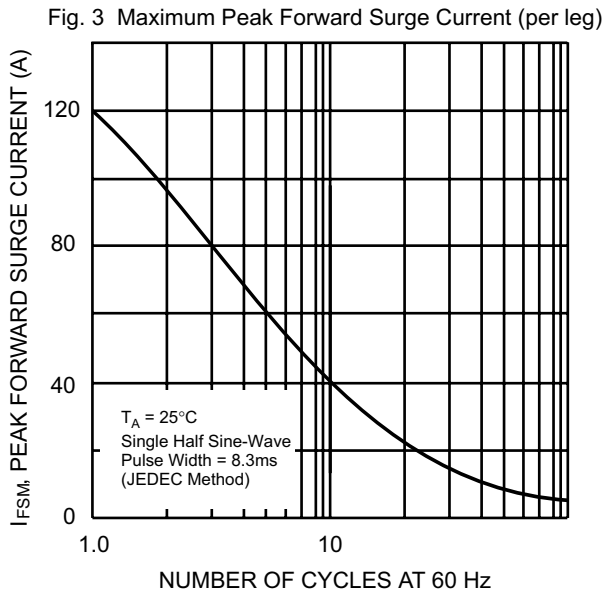
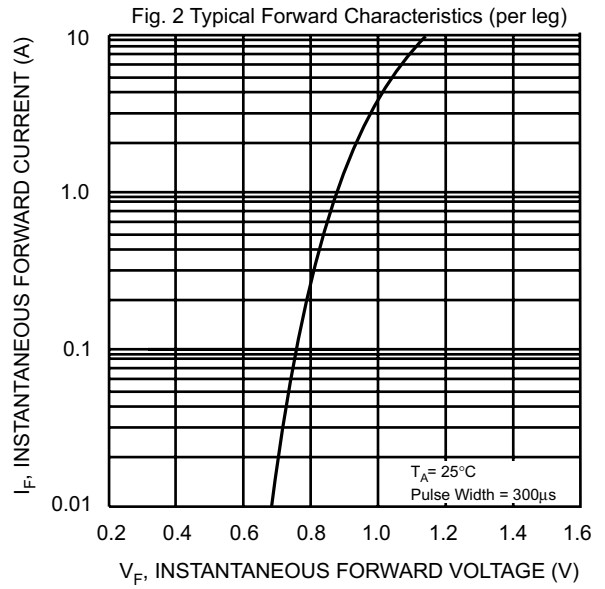
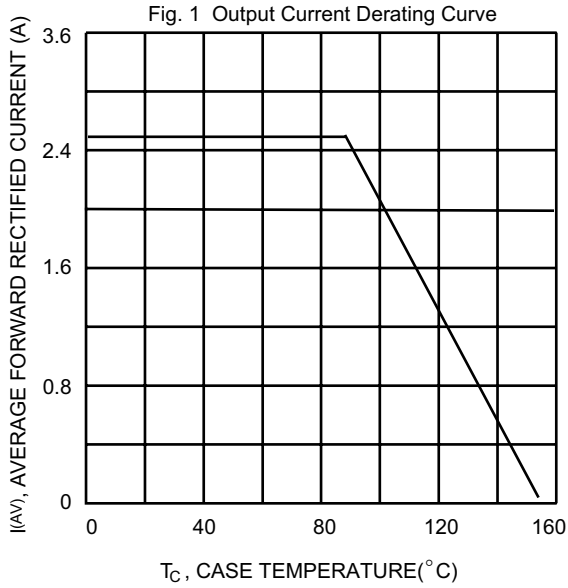


Maximum Ratings and Electrical Characteristics

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	DBF251	DBF252	DBF254	DBF256	DBF258	DBF2510	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}							
RMS Reverse Voltage	V_{RMS}	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=90^\circ C$	IF(AV)	2.5						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	120						A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	59.76						A ² s
Forward Voltage per element @ $I_F=1.25A$ @ $I_F=2.5A$	V_{FM}	0.95 1.0						V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 200						μA
Typical Junction Capacitance per leg (Note 2)	C_J	41						pF
Typical Thermal Resistance per leg	$R_{\theta JA}$	70						°C/W
	$R_{\theta JC}$	15						
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150						°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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