



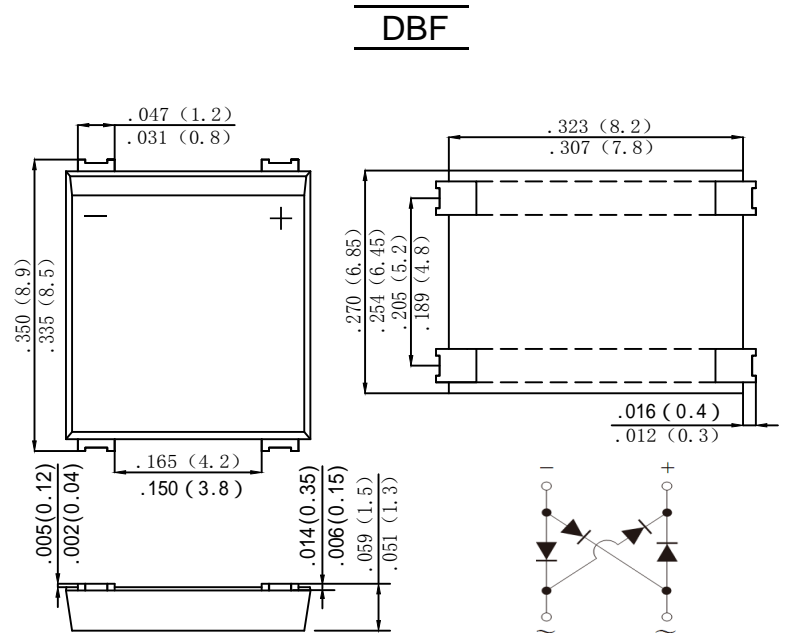
DBF301 THRU DBF310 SURFACE MOUNT BRIDGE RECTIFIERS

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, Method 208
- 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 (Note 1)	SYMBOL	DBF301	DBF302	DBF304	DBF306	DBF308	DBF310	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 2) @ $T_C=120^\circ C$	IF(AV)	3.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	110						A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	50.215						A ² s
Forward Voltage per element @IF=1.5A @IF=3.0A	V_{FM}	0.95 1.0						V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	IR	5.0 500						uA
Typical Junction Capacitance per leg (Note 3)	CJ	45						pF
Typical Thermal Resistance per leg (Note 4)	RθJA	15						°C/W
	RθJC	5						
Operating and Storage Temperature Range	TJ, TSTG	-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.
3. Mounted on 15 mm*12 mm*1.6mm AL pad attach 195 mm*110 mm*10 mm steel plate



DBF301 THRU DBF310 SURFACE MOUNT BRIDGE RECTIFIERS

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

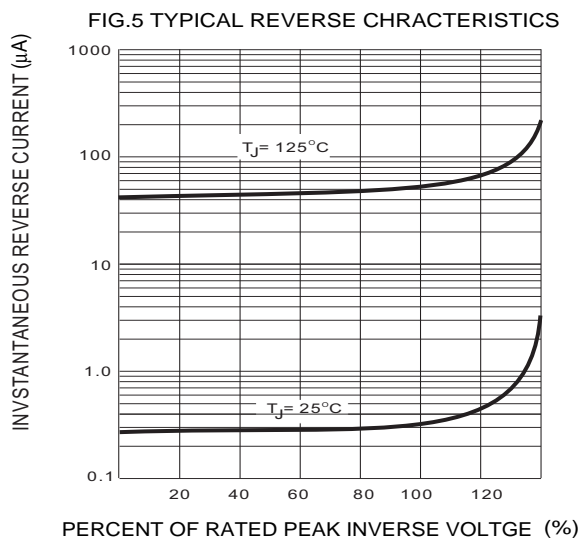
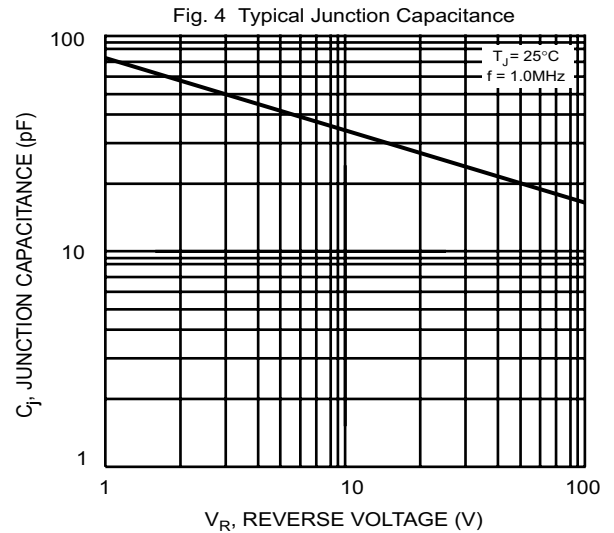
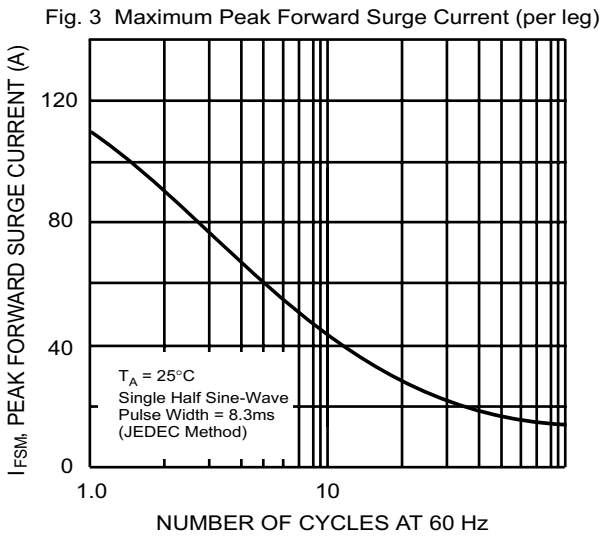
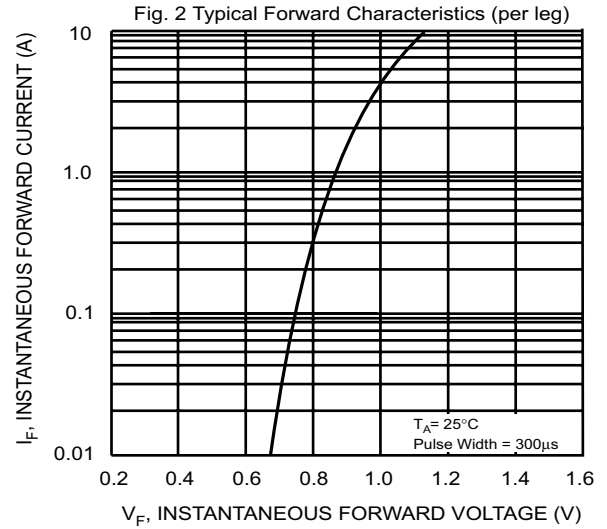
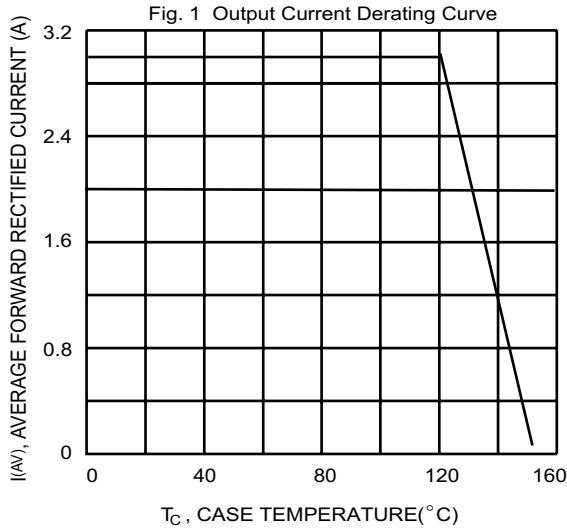


FIG.6 MOUNTING PAD LAYOUT

