

3.0 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

Single Phase 3.0A Surface Mount Glass Passivated Bridge Rectifier
Features

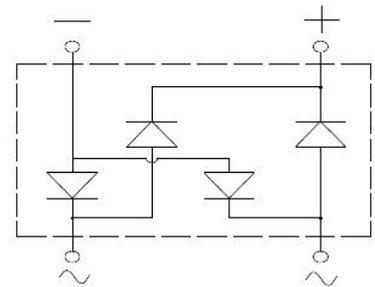
- Glass passivated chip;
- Ideal for automated placement
- High surge current capability
- Low forward voltage drop
- Design for surface mount application

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.


Mechanical Data

- Package: DBF, Molding compound meets UL 94V-0 flammability rating, RoHS compliant
- Terminals, Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body


Maximum Ratings and Electrical Characteristics

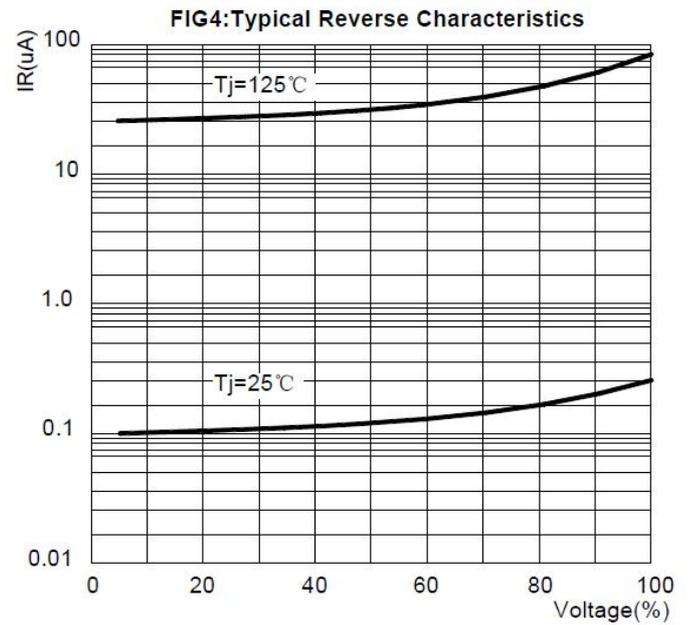
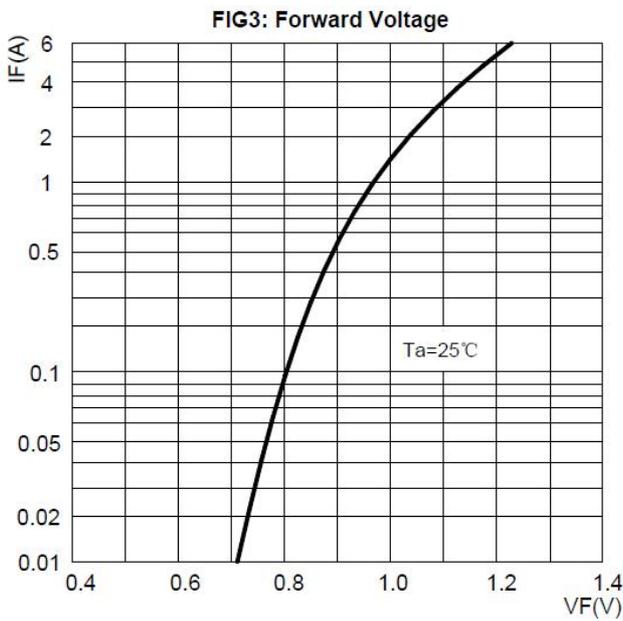
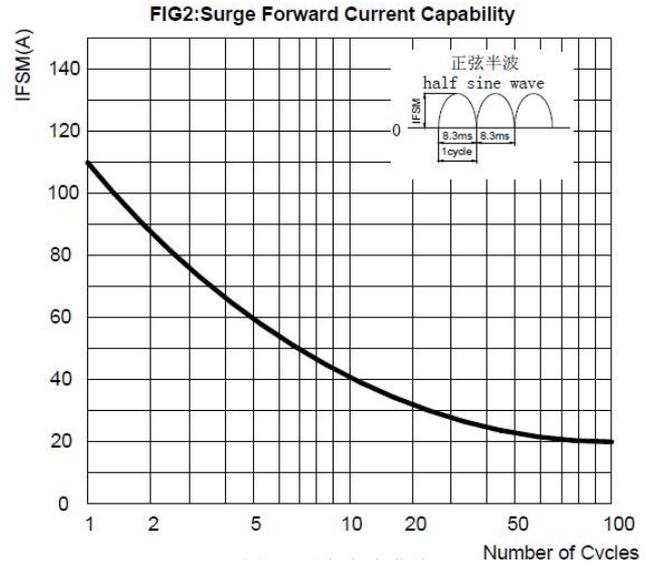
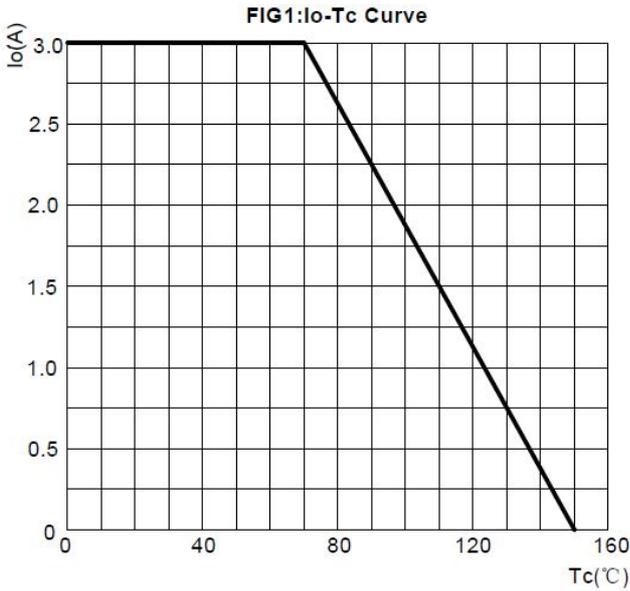
(Ta=25°C Unless Otherwise Specified)

TYPE NUMBER		SYMBOL	DBF3005	DBF301	DBF302	DBF304	DBF306	DBF308	DBF310	UNITS
Maximum Repetitive Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VR(RMS)	35	70	140	280	420	560	720	
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @60HZ sine wave, R-load TC=70°C		IO(AV)	3							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half @60HZ, Tj=25°C		IFSM	110							A
Current squared time @1ms ≤ t ≤ 8.3ms, Tj=25°C, Rating of per diode		I²t	50.2							A²S
Maximum instantaneous forward voltage at @IF=1.5A @IF=3.0A		VFM	1.0							V
			1.1							
Peak Reverse Current At Rated DC Blocking Voltage @TA = 25°C @TA = 125°C		IRM	5							uA
			300							
Typical Thermal Resistance per leg	Between Junction and Ambient	R θ JA	55							°C/W
	Between Junction and Lead	R θ JL	15							
	Between Junction and Case	R θ JC	10							
Operating junction temperature range		TJ	-55 TO 150							°C
Operating and Storage Temperature Range		TSTG	-55 TO 150							°C

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■ **特性曲线（典型） Characteristics(Typical)**



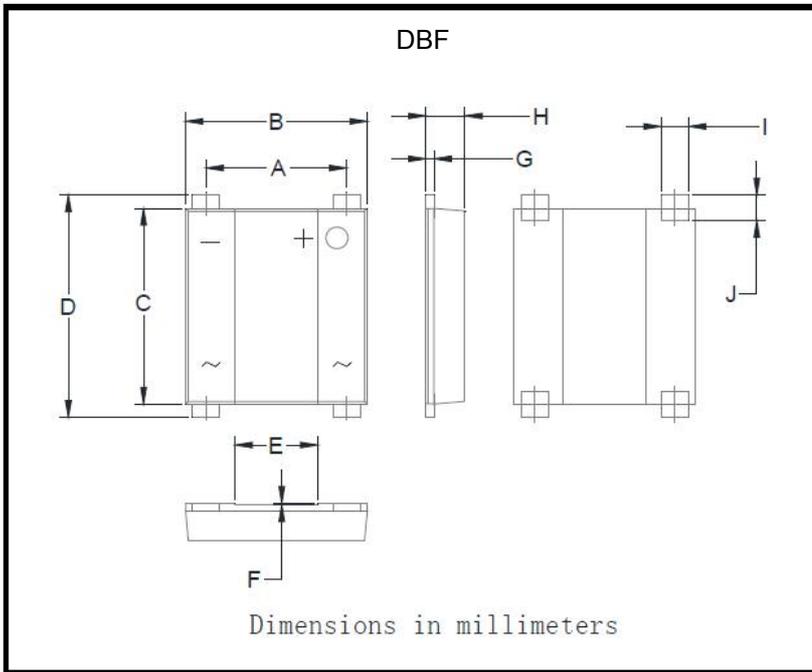
■ **Ordering Information (Example)**

P/N	PACK	MINIMUM PACKAGE(PCS)	INNER BOX QUANTITY(PCS)	CARTON QUANTITY(PCS)	DELIVERY MODE
DBF3005-DBF310	T/R	3000	6000	60000	13"

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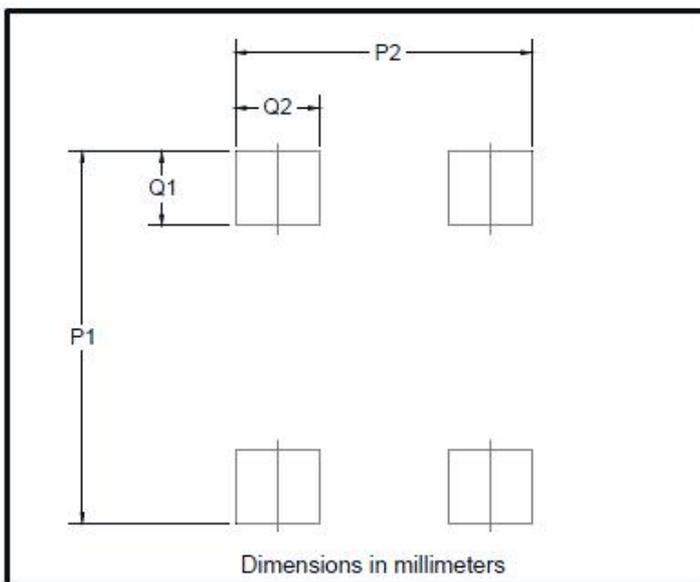
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■ **Outline Dimensions**



DBF		
Dim	Min	Max
A	4.90	5.20
B	6.50	6.70
C	7.20	7.40
D	7.90	8.60
E	2.90	3.10
F	0.04	0.08
G	0.20	0.40
H	1.30	1.50
I	0.95	1.15
J	0.70	1.05

■ **Suggested pad layout**



Dim	Min
P1	9.15
P2	7.10
Q1	1.80
Q2	2.00