



## 6.0A Single-Phase GLass Passivated Bridge Rectifiers

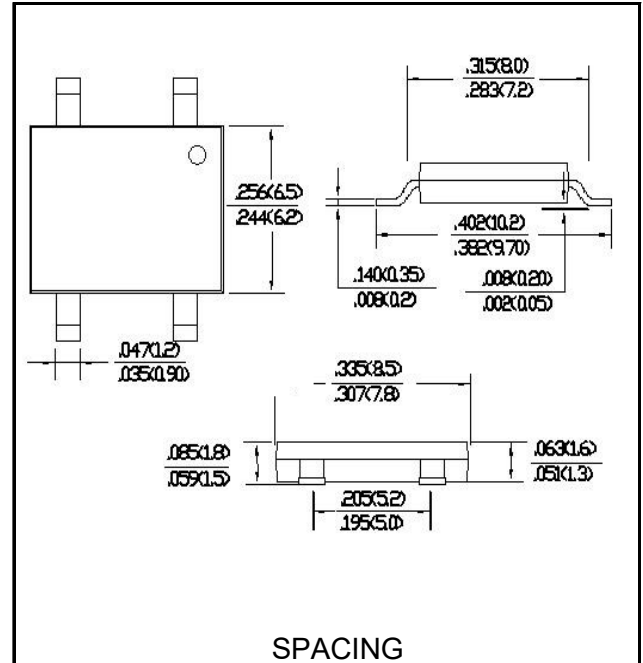
### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 85 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

### Mechanical Data

- Case:Molded plastic
- Terminals:Plate leads solderable per MIL-STD-750, Method 2026
- Polarity:Polarity symbols molded or Marked on body
- Mounting Position:Any
- Weight:0.007ounce,0.22 grams(approx)

### DBF



### Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ. For Capacitive load derate current by 20%

Parameter	Symbol	DBF 6005	DBF 601	DBF 602	DBF 604	DBF 606	DBF 608	DBF 610	unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at $T_A=40^\circ\text{C}$	$I_{F(AV)}$	6.0							A
Maximum instantaneous forward voltage drop per diode at $I_{FM}=2.0\text{A}$	$V_F$	1.05							V
Surge(non-repetitive) forward current@60HZ sine wave,1cycle. $T_J=25^\circ\text{C}$	$I_{FSM}$	150							A
Rating for fusing( $t<8.3\text{ms}$ )	$I^2t$	93							$\text{A}^2\text{sec}$
Between Junction and Ambient(1)	$R_{\theta JA}$	55							$^\circ\text{C}/\text{w}$
Maximum DC reverse current at ratde $T_A=25^\circ\text{C}$	$I_R$	5							$\mu\text{A}$
DC blocking voltage per diode $T_A=125^\circ\text{C}$		100							
Operating j temperature range	$T_J$	-55to+150							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55to+150							$^\circ\text{C}$

Notes: (1) Thermal resistance from junction to ambient mounted on P.C.B with 0.5\*0.5(13\*13mm)copper pads



Ratings And Characteristic Curves

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

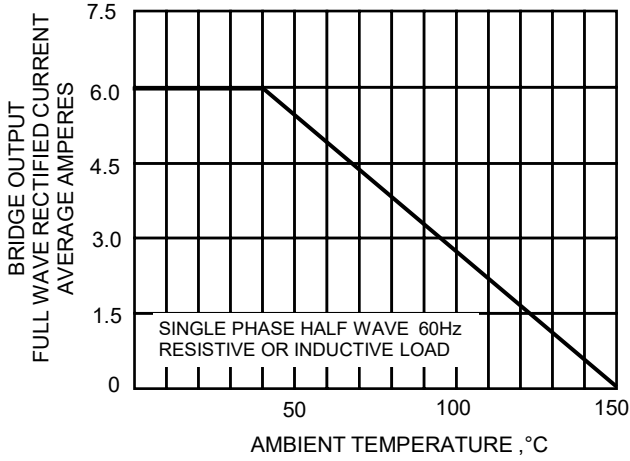


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

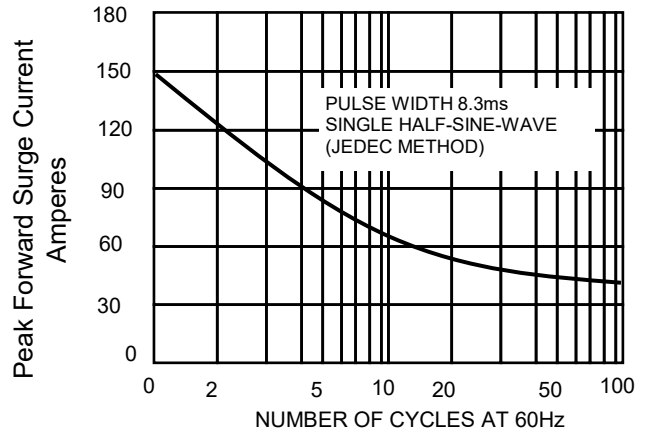


FIG.3-TYPICAL JUNCTION CAPACITANCE

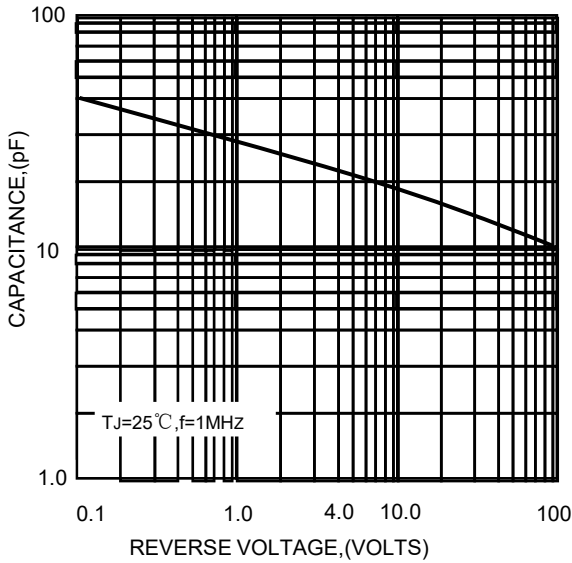


FIG.4-TYPICAL FORWARD CHARACTERISTICS

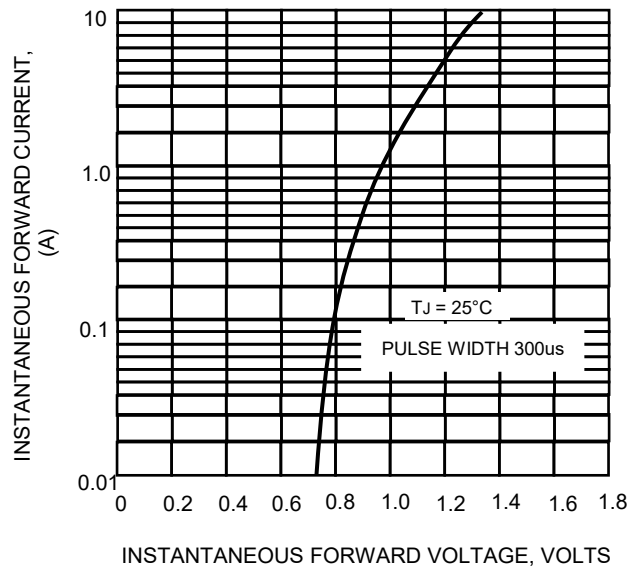
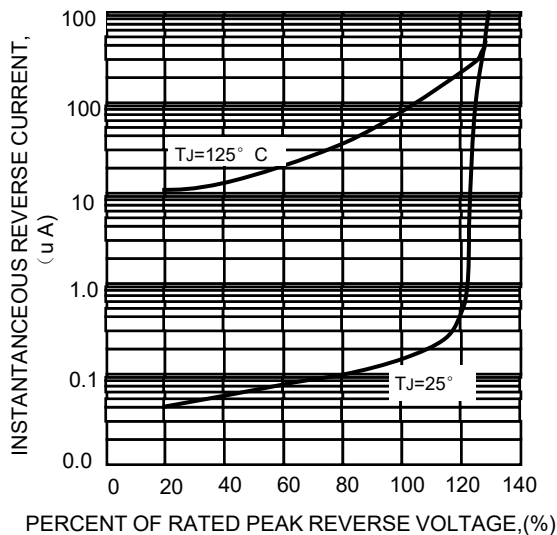


FIG.5-TYPICAL REVERSE CHARACTERISTICS

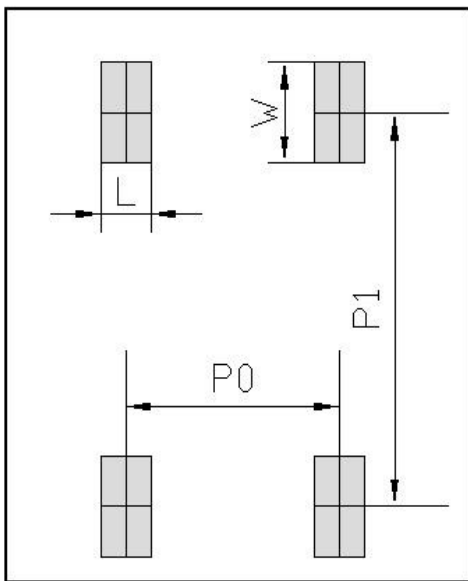




Ordering Information (Example)

PREFFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DBF6005~DBF610	Approximate 0.22	2500	5000	25000	REEL

Suggested Pad layout



Dimensions in millimeters

Unit:mm	
DIM	MIN
P0	5.12
P1	8.73
L	1.2
W	2.22