



Rectifier Reverse Voltage 50V to 1000V
HBS

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 200 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

Mechanical Data

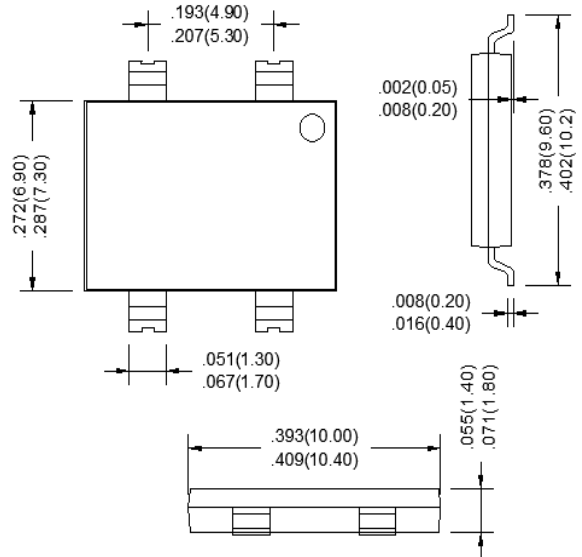
Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750, Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.015ounce,0.38 grams(approx)



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	HBS 8005	HBS 801	HBS 802	HBS 804	HBS 806	HBS 808	HBS 810	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 $T_A=40^\circ C$	$I_{F(AV)}$	8.0							A
Instantaneous forward voltage drop per diode	V_F	IF=1.0A	0.82 Typ.			0.87 Max.			V
		IF=4.0A	0.89 Typ.			0.94 Max.			
		IF=8.0A	0.94 Typ.			0.98 Max.			
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							A
Maximum DC reverse current at ratde $T_A=25^\circ C$	I_R	5							UA
DC blocking voltage per element $T_A=125^\circ C$		100							
Rating for fusing($t<8.3ms$)	I^2t	166.0							A^2sec
Thermal resistance	Between Junction and Ambient	R_{eJ-A}							$^\circ C/w$
	Between Junction and Lead	R_{eJ-L}							
	Between Junction and Case	R_{eJ-C}							
Operating junction and stroage temperature range	T_J T_{STG}	-55to+150							$^\circ C$



HBS8005 thru HBS810

8.0A Single-Phase GLass Passivated Bridge Rectifiers



Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED

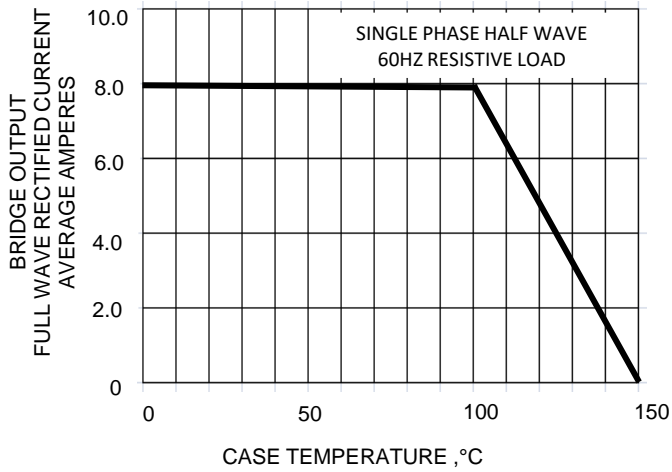


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

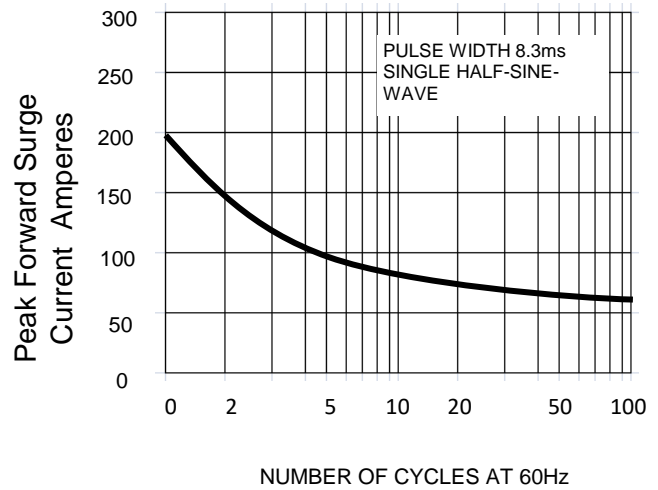


FIG.3-TYPICAL REVERSE CHARACTERISTICS

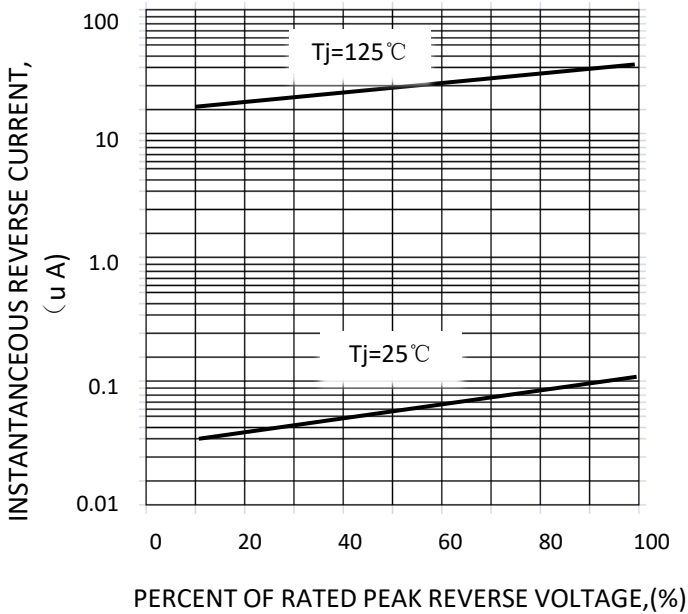
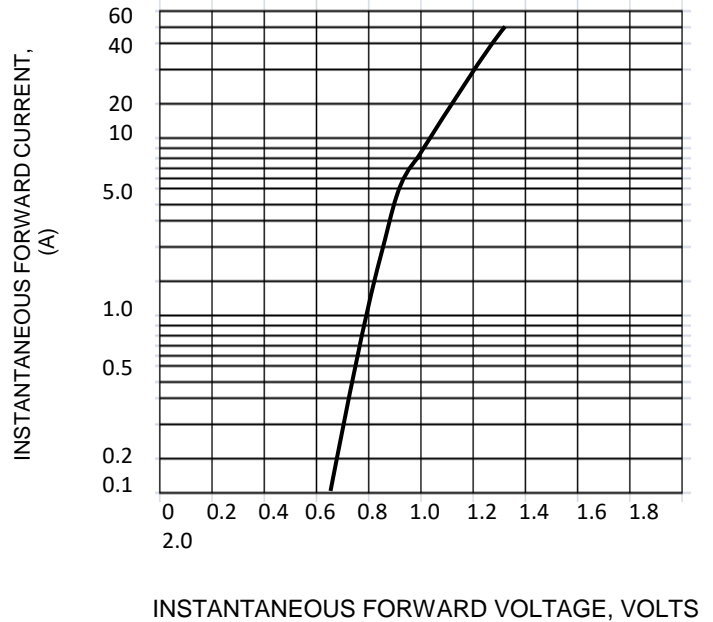
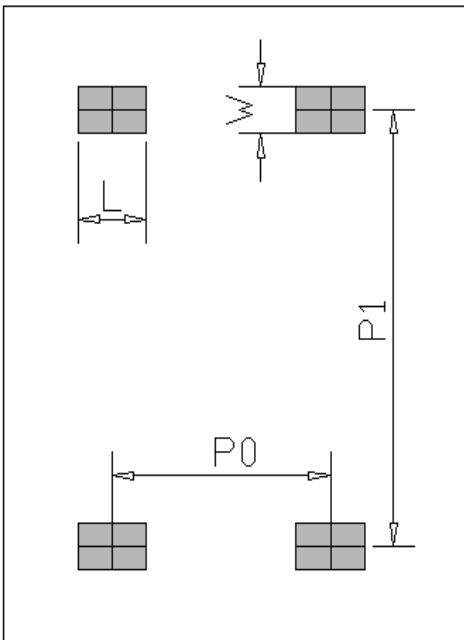


FIG.4-TYPICAL FORWARD CHARACTERISTICS





Suggested pad layout



Unit:mm	
DIM	MIN
P0	5.10
P1	9.30
L	1.60
W	1.00

Dimensions in millimeters

Ordering Information(Example)

PREFFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HBS8005~HBS810	Approximate 0.38	2500	5000	25000	13"Reel