



HBS8005 thru HBS810

8.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V

HBS

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge 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

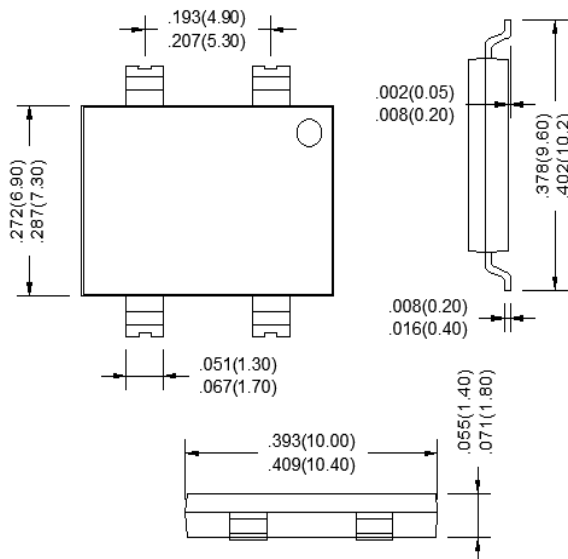
Case:Molded plastic

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 TA=40℃		I _{F(AV)}	8.0							A
Instantaneous forward voltage drop per diode	IF=1.0A	V _F	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 TA=25℃		I _R	5							UA
DC blocking voltage per element TA=125℃			100							
Rating for fusing(t<8.3ms)		I ² t	166.0							A ² sec
Thermal resistance	Between Junction and Ambient	R _{eJ-A}	55							℃/w
	Between Junction and Lead	R _{eJ-L}	10							
	Between Junction and Case	R _{eJ-C}	3							
Operating junction and stroage temperature range		T _J , T _{STG}	-55to+150							℃

Rating and Characteristic Curves(TA=25°C Unless otherwise noted)
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FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED

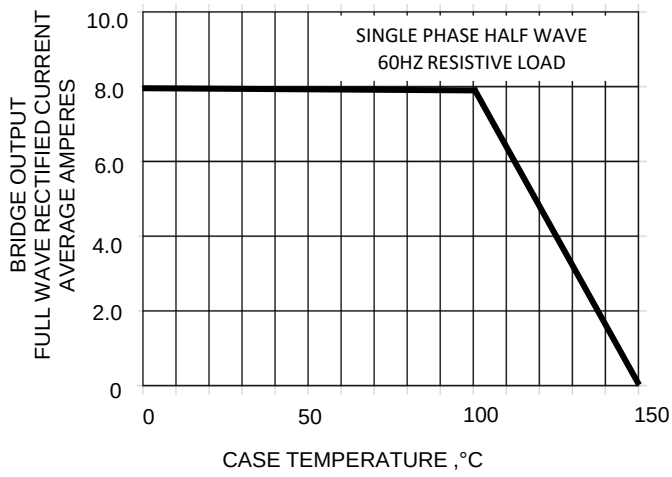


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

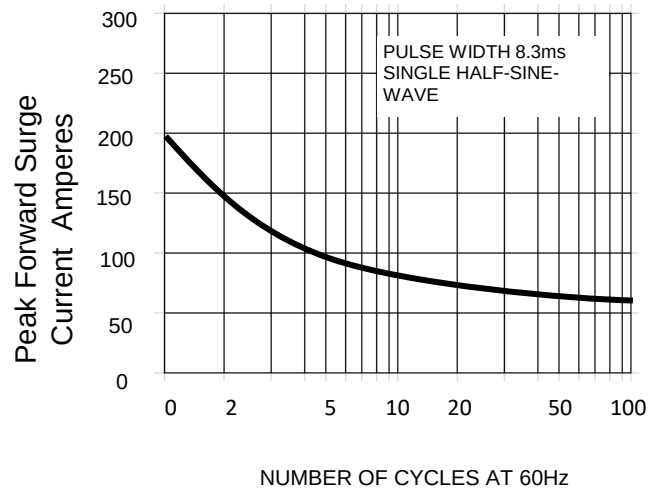


FIG.3-TYPICAL REVERSE CHARACTERISTICS

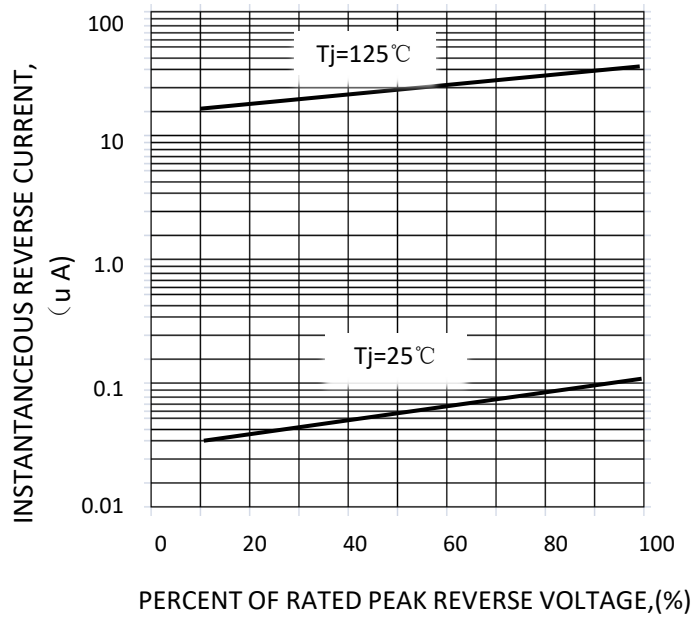


FIG.4-TYPICAL FORWARD CHARACTERISTICS

