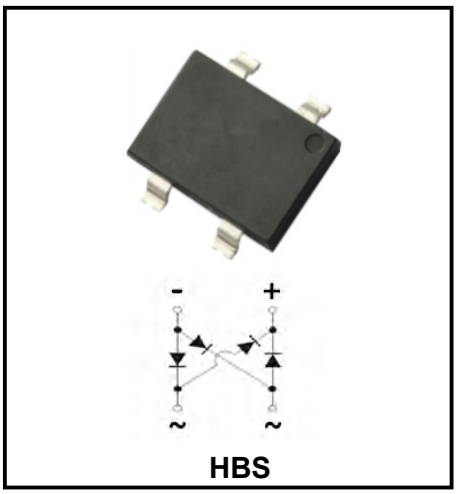
8.0A Single-Phase GLass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 8.0 A



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℃/10 seconds at 5 lbs(2.3kg)tension

MECHANICAL DATA

- Case:HBS
- 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)

Maximum Ratings & Thermal Characteristics

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

Parameter		Symbol	HBS8005	HBS801	HBS802	HBS804	HBS806	HBS808	HBS810	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℃		$I_{F(AV)}$	8.0							A
Max Instantaneous forward voltage drop per diode	I_F=1.0A I_F=4.0A I_F=8.0A	V_F	0.87 0.94 0.98							V
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	200							A
Maximum DC reverse current at ratde DC blocking voltage per element	T_A=25℃ T_A=125℃	I_R	5 100							μA
Rating for fusing(t<8.3ms)		I^2t	166							A^2s
Thermal resistance	Between Junction and Ambient	$R_{\theta JA}$	55							°C/W
	Between Junction and Lead	$R_{\theta JL}$	10							
	Between Junction and Case	$R_{\theta JC}$	3							
Operating Junction Temperature Range		T_j	-55 ~ +150							°C
Storage Temperature Range		T_{stg}	-55 ~ +150							°C

Rating and Characteristic Curves

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED

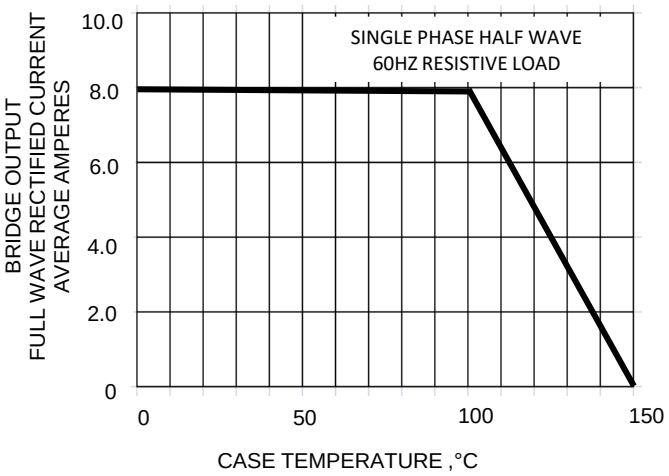


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

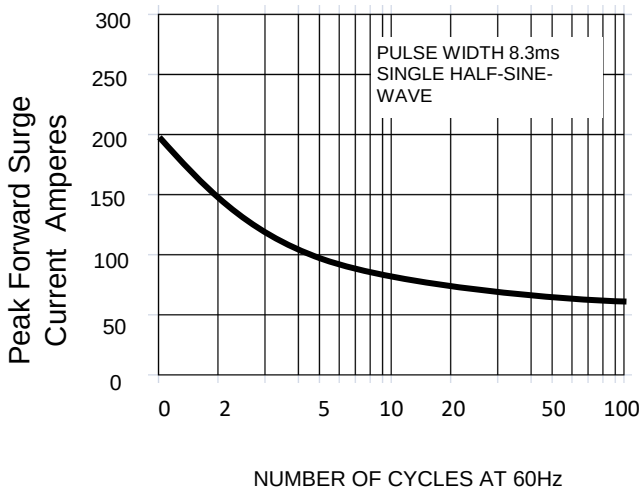


FIG.3-TYPICAL REVERSE CHARACTERISTICS

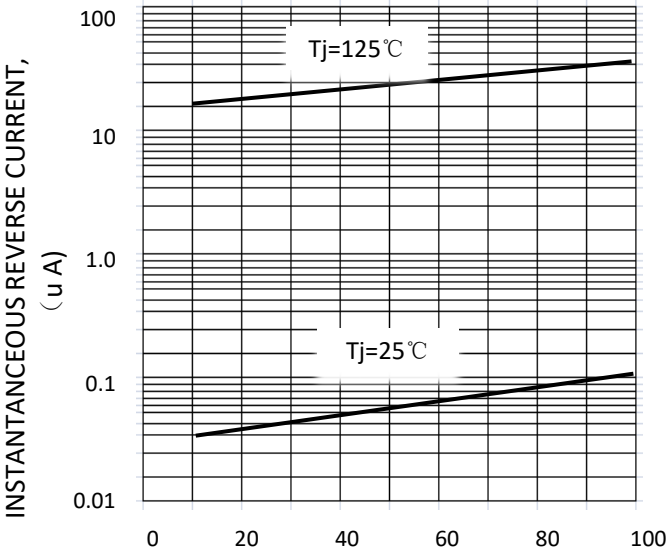
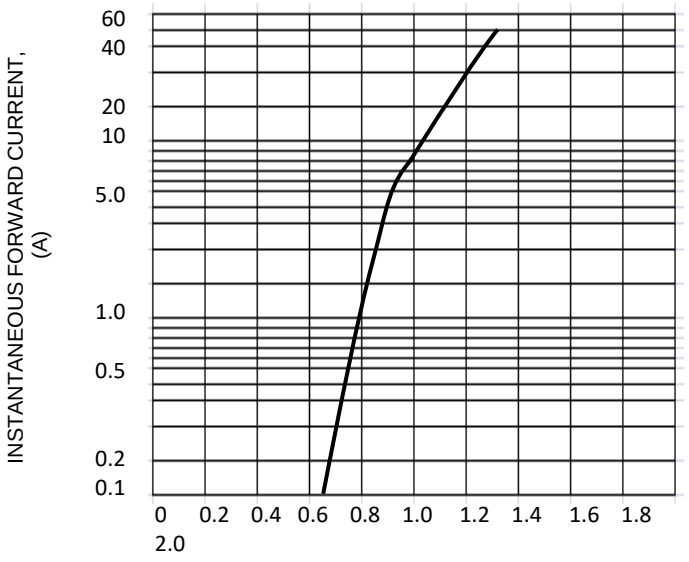
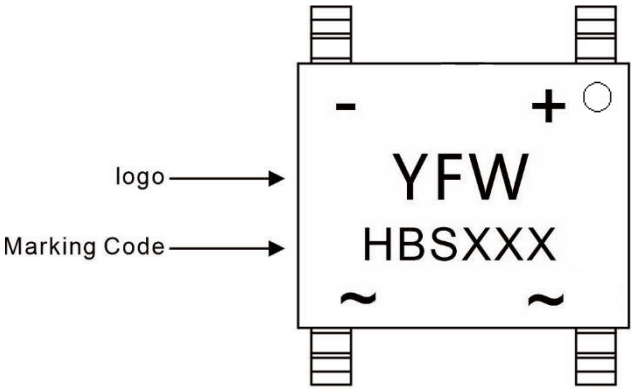


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Marking Diagram

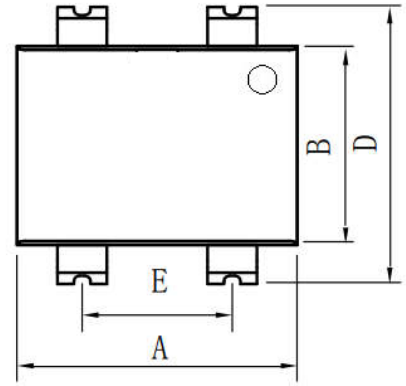


Ordering information

Package	Packing Description	Packing Quantity
HBS	Tape/Reel,13"reel	2500PCS/Reel 25000PCS/Carton

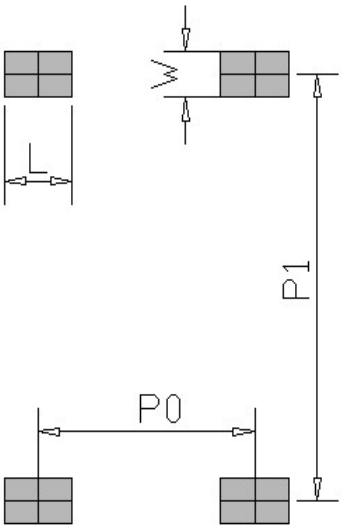
Package Dimensions

HBS



Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	10.0	10.4	0.39	0.41
B	6.9	7.3	0.27	0.28
C	1.4	1.7	0.06	0.07
D	9.6	10.2	0.37	0.40
E	4.9	5.3	0.19	0.20
F	1.3	1.7	0.05	0.06

The recommended mounting pad size



Millimeter(mm)	
DIM	MIN
P0	5.10
P1	9.30
L	1.60
W	1.00

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