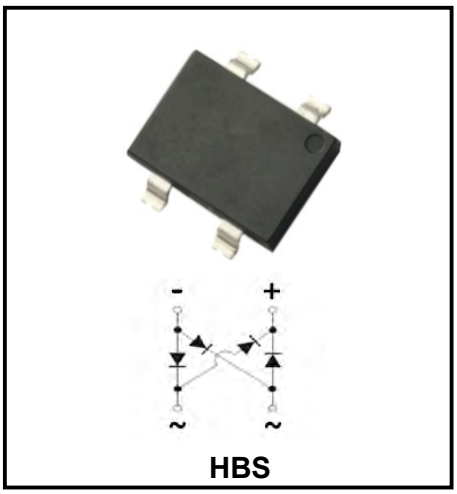
8.0A Single-Phase GLass Passivated Fast Recovery Bridge Rectifiers

Reverse Voltage - 200 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	RHBS802	RHBS804	RHBS806	RHBS808	RHBS810	unit
Maximum repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Maximum RMS bridge input voltage		V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	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	V_F	0.90					V
	I_F=4.0A		1.15					
	I_F=8.0A		1.30					
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℃		I_R	5					μA
DC blocking voltage per element T_A=125℃			100					
Rating for fusing(t<8.3ms)		I^2t	166.0					A^2s
Maxumum reverse recovery time(I_F=0.5A,I_R=1.0A,Irr=0.25A)		Trr	150		250	500		ns
Thermal resistance	Between Junction and Ambient	$R_{\theta JA}$	55					°C/W
	Between Junction and Lead	$R_{\theta JL}$	14					
	Between Junction and Case	$R_{\theta JC}$	8					
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

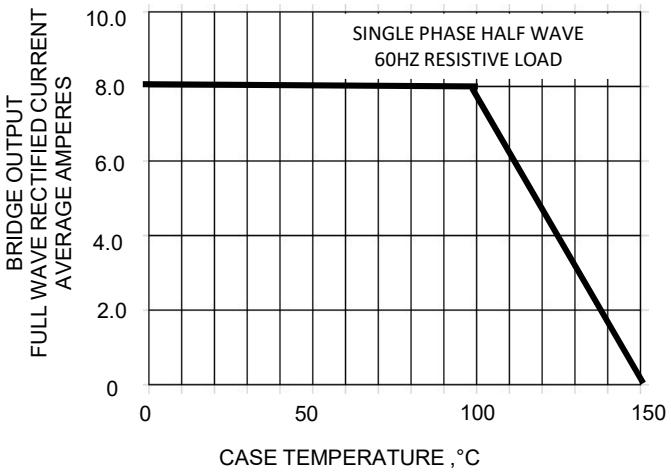


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

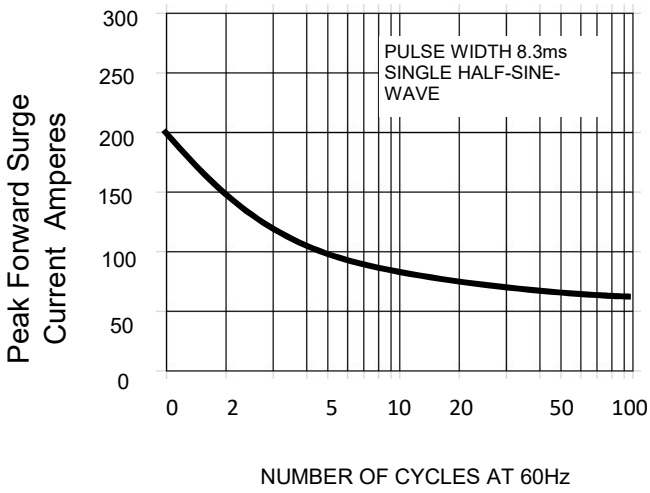


FIG.3-TYPICAL REVERSE CHARACTERISTICS

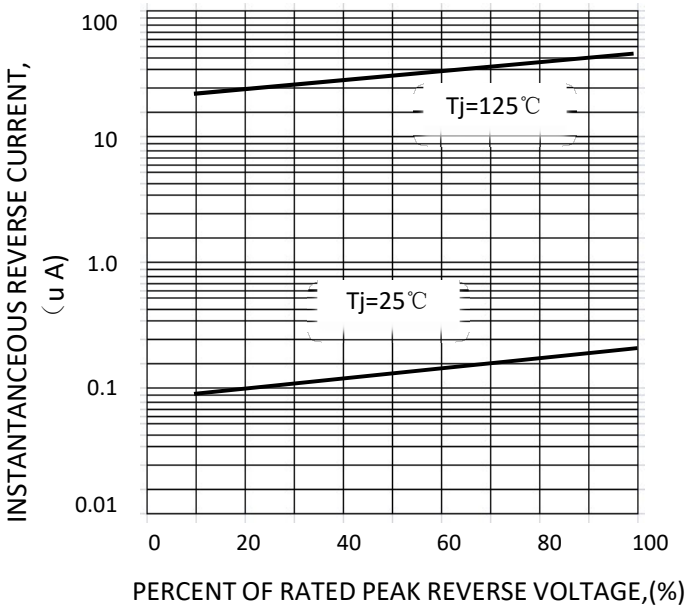


FIG.4-TYPICAL FORWARD CHARACTERISTICS

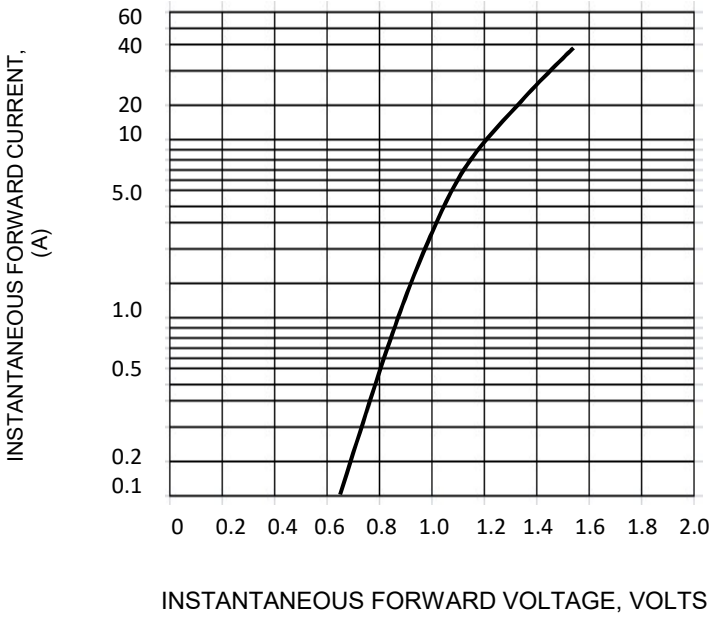
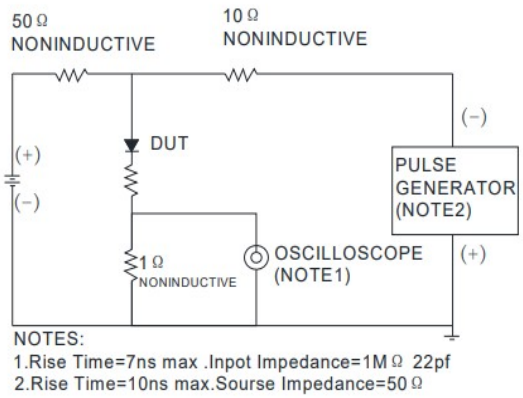
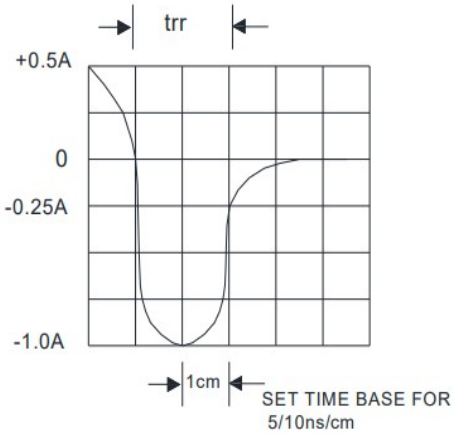
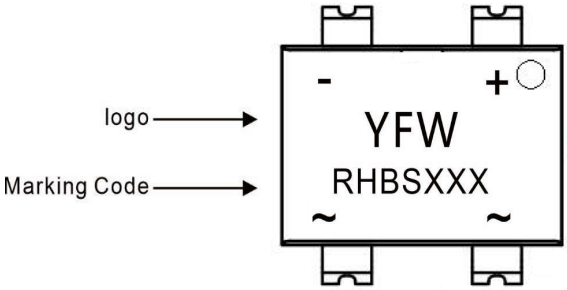


FIG.5-Diagram of circult and Testing wave form of reverse recovery time





Marking Diagram

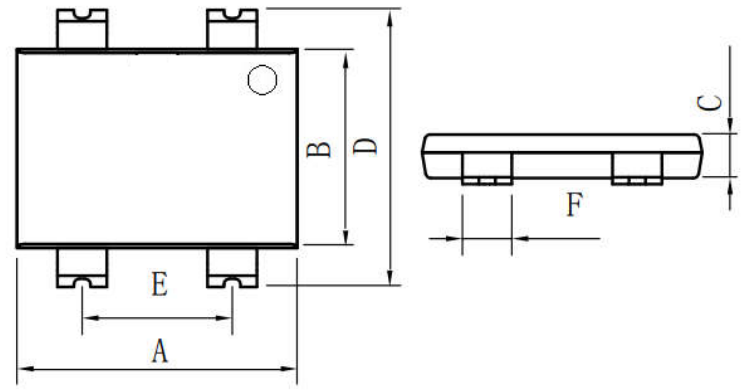


Ordering information

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

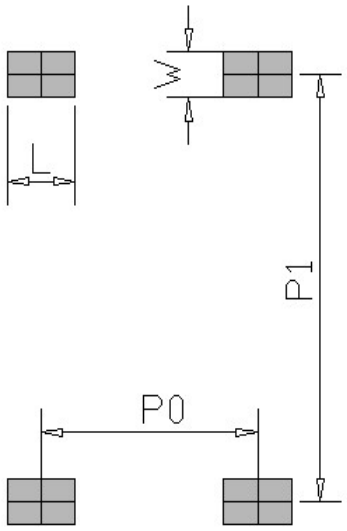
Package Dimensions

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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