

HRB22 THRU HRB210

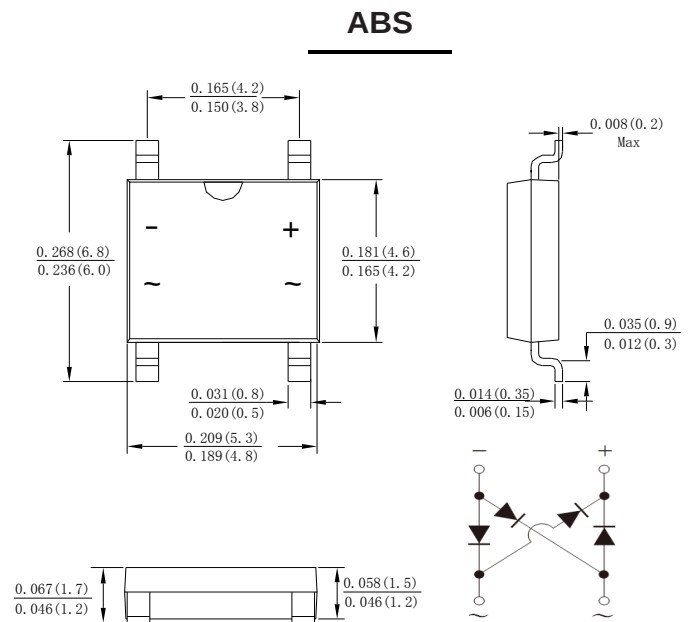
Single Phase 2.0AMP Fast Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: molded plastic body
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	HRB22	HRB24	HRB26	HRB28	HRB210	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_{DC}						
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current (Note:1) @ $T_c = 100^\circ C$	$I_F(AV)$	2.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60					A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	14.94					A ² s
Forward Voltage per element @ $I_F = 2.0A$	V_{FM}	1.3					V
Maximum Reverse Recovery Time (Note2)	T_{rr}	150		250		500	ns
Peak Reverse Current @ $T_J = 25^\circ C$ At Rated DC Blocking Voltage @ $T_J = 125^\circ C$	I_R	5.0 200					uA
Typical Junction Capacitance (Note3)	C_J	23					pF
Typical Thermal Resistance	$R_{\theta JA}$	80					°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150					°C

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Reverse Recovery Test Conditions: $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C. For reference only

Ratings And Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

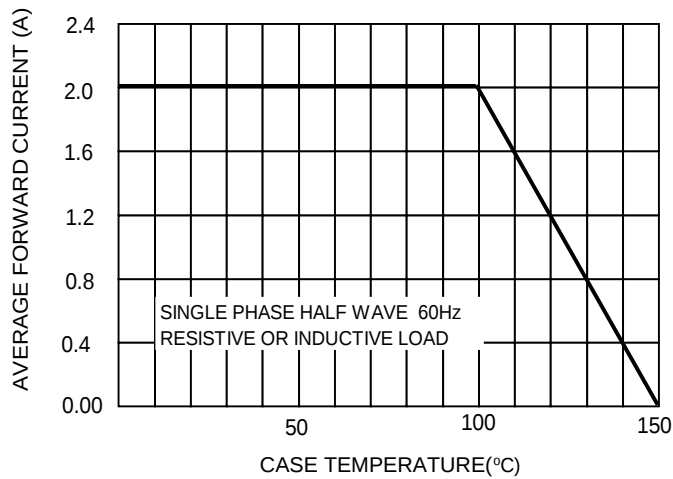


FIG.2 TYPICAL FORWARD CHARACTERISTICS

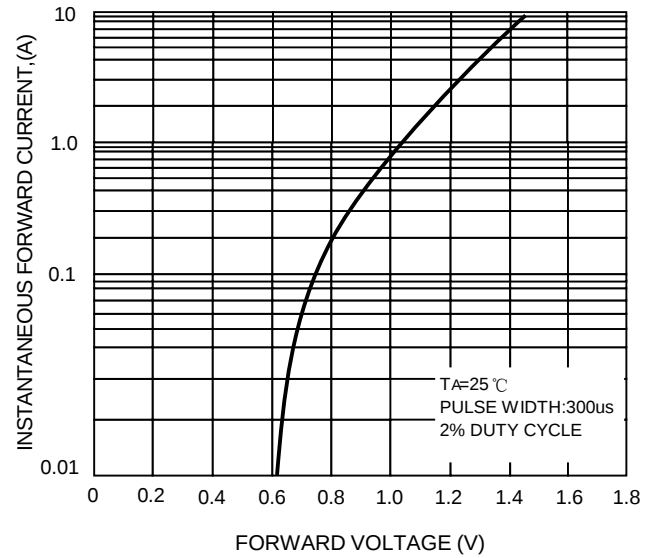


Fig. 3 Maximum Peak Forward Surge Current

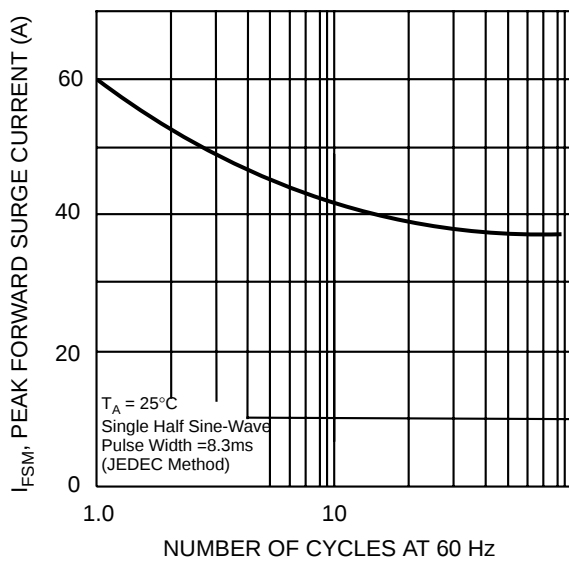


Fig. 4 Typical Reverse Characteristics

