



EABS21 THRU EABS26

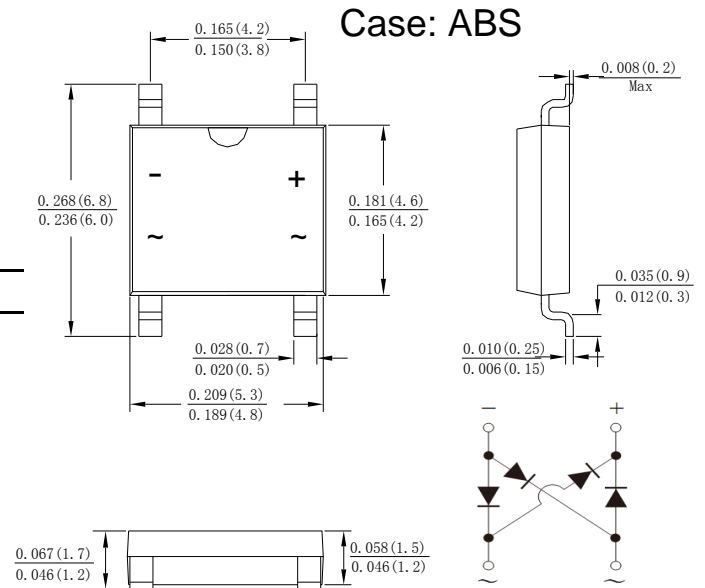
Single Phase 2.0AMP Super Fast Glass Passivated Bridge Rectifier

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: SOPA-4, molded plastic ABS
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



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	EABS21	EABS22	EABS24	EABS26	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	100	200	400	600	V
	V _{RWM}					
	V _{DC}					
RMS Reverse Voltage	V _{RMS}	70	140	280	420	V
Average Rectified Output Current (Note:1)@T _c =100 °C	IF(AV)	2.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60				A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	14.94				A ² s
Forward Voltage per element @IF=2.0A	V _{FM}	0.95		1.25	1.7	V
Maximum Reverse Recovery Time (Note2)	T _{rr}	35				ns
Peak Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C	I _R	5.0 100				uA
Typical Junction Capacitance (Note3)	C _J	31				pF
Typical Thermal Resistance	R _{θJA}	62.5				°C/W
	R _{θJL}	25				
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150				°C

Note:1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.

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

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



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FIG.1 FORWARD CURRENT DERATING CURVE

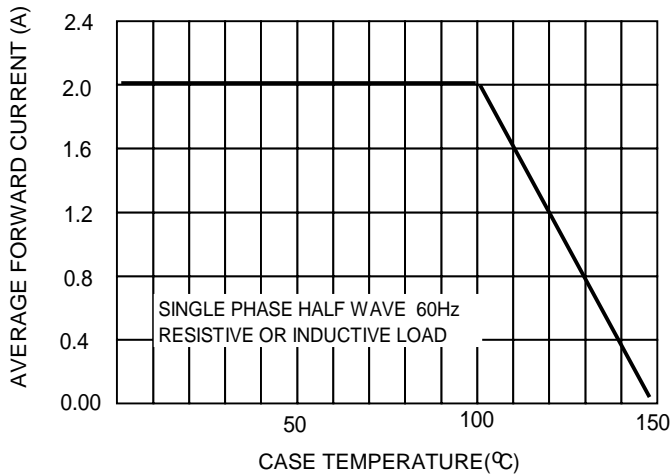


FIG.2 TYPICAL FORWARD CHARACTERISTICS

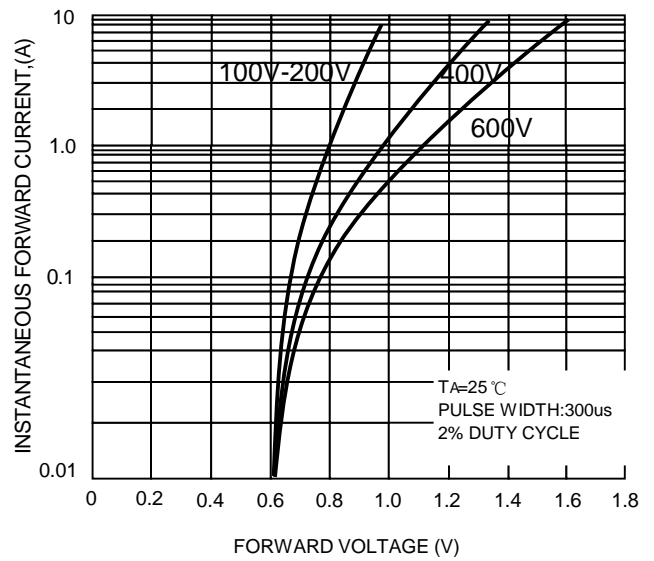


Fig. 3 Maximum Peak Forward Surge Current

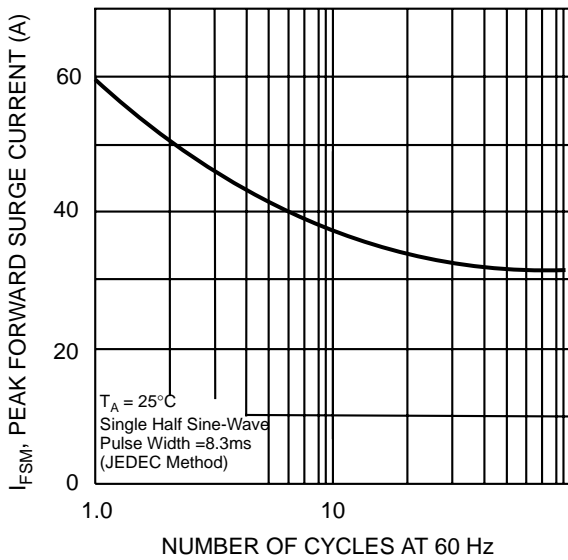


Fig. 4 Typical Reverse Characteristics

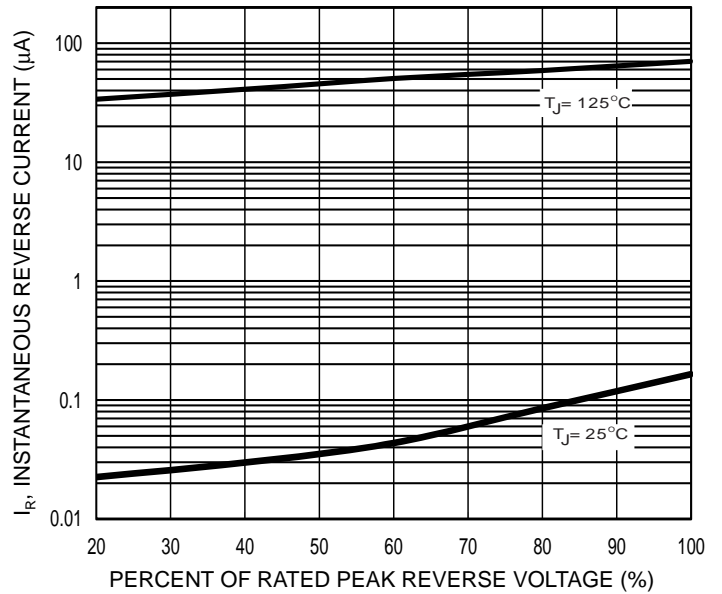
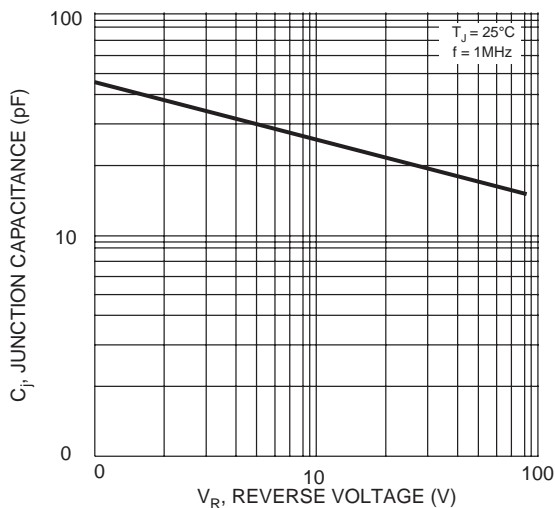
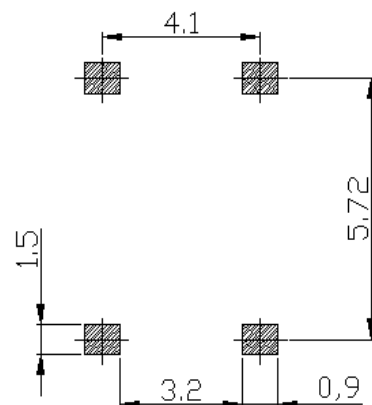


Fig. 5 Typical Junction Capacitance



ABS PAD LAYOUT





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