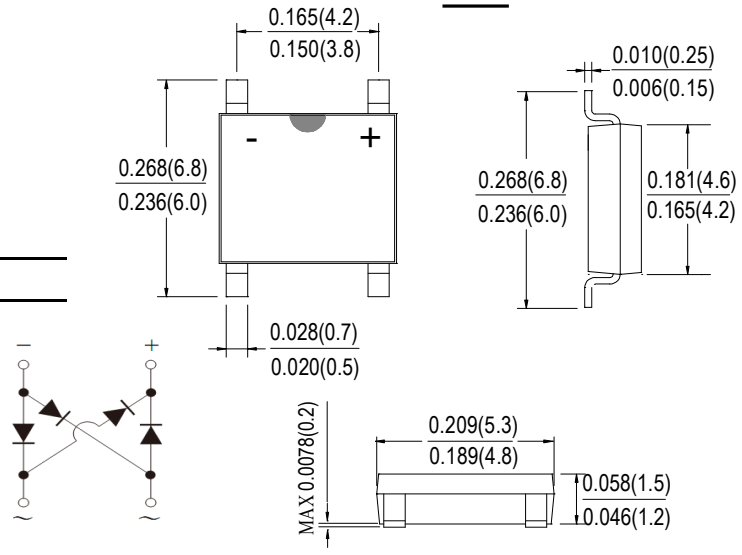
EABS1 THRU EABS6

SINGLE PHASE 0.8AMP 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

ABS



Dimensions in inches and (millimeters)

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℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EABS1	EABS2	EABS4	EABS6	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	100	200	400	600	V
RMS Reverse Voltage	V_{RMS}	70	140	280	420	V
Average Rectified Output Current @T_C =100℃	IF(AV)	0.8				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30				A
Rating for fusing (t<8.3ms)	I^2t	3.74				A^2s
Forward Voltage per element @IF=0.8A	V_{FM}	0.95		1.25	1.7	V
Maximum Reverse Recovery Time (Note 1)	Trr	35				ns
Peak Reverse Current @T_A =25℃ At Rated DC Blocking Voltage @T_A =125℃	I_R	5.0 200				uA
Typical Thermal Resistance per leg	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25				℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-55to+150				℃

Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

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FIG.1 FORWARD CURRENT DERATING CURVE

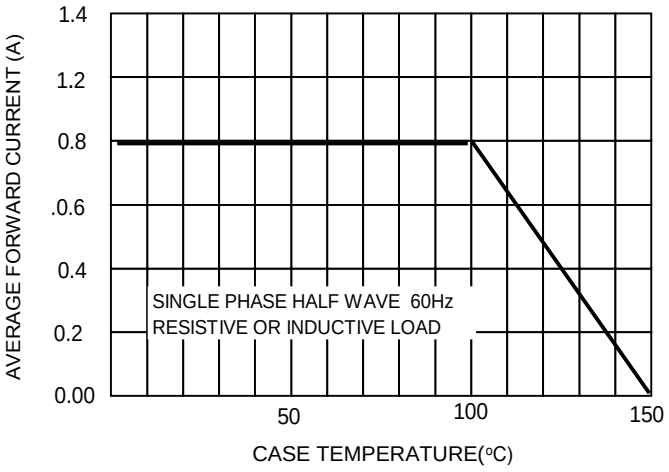


FIG.2 TYPICAL FORWARD CHARACTERISTICS

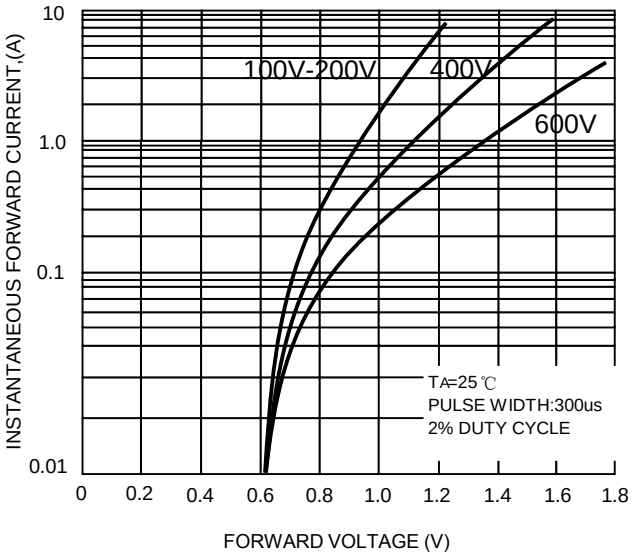


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

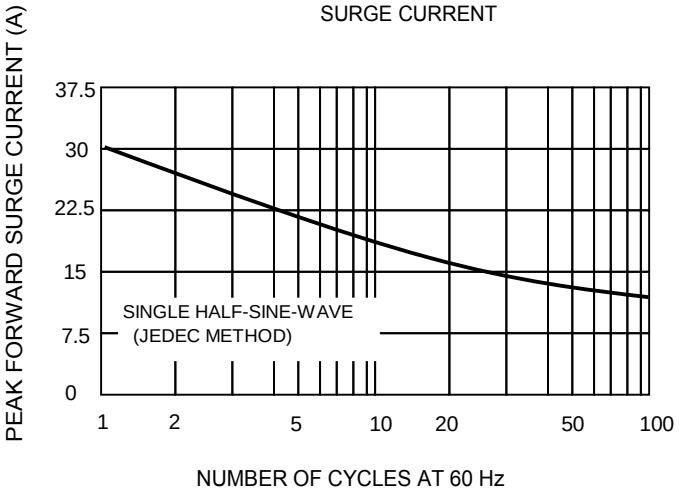
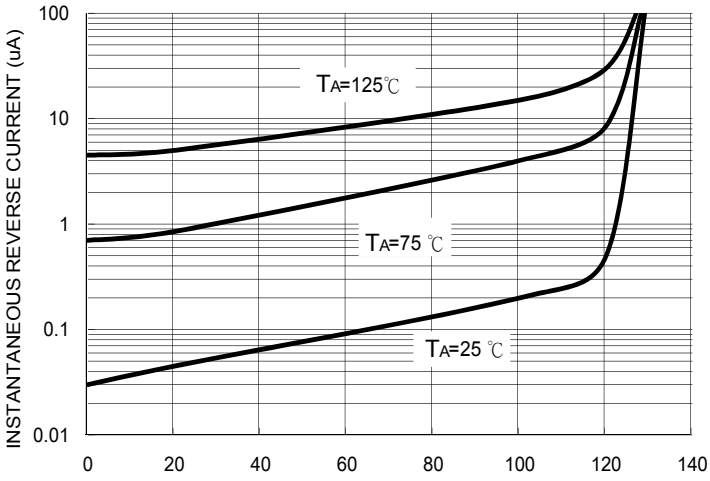
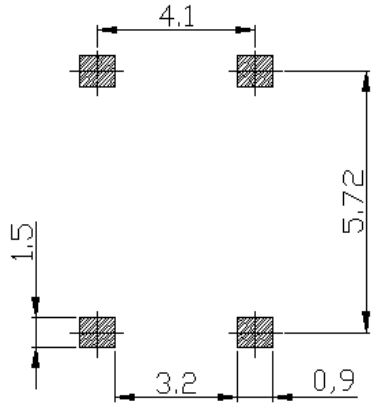


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT



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