



EABS1U-EABS6U

SURFACE MOUNT SUPER FAST BRIDGE RECTIFIERS

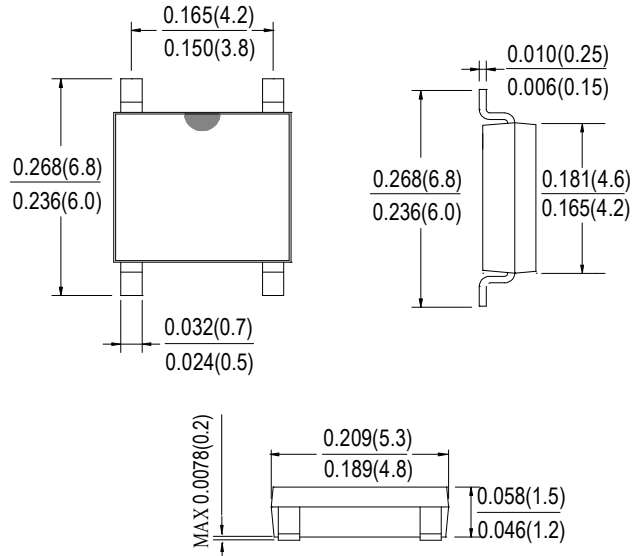
Features

- Glass passivated die construction ABS
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-O
- UL Recognized File # E476623

Mechanical Data

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

ABS



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	EABS1U	EABS2U	EABS4U	EABS6U	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 @ $T_c = 100^\circ\text{C}$	$I_F(AV)$	1.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35				A
Rating for fusing ($t < 8.3\text{ms}$)	$I^2 t$	5.084				$A^2 s$
Forward Voltage per element @ $I_F = 1.0\text{A}$	V_{FM}	0.95		1.25	1.7	V
Maximum Reverse Recovery Time (Note 1)	T_{rr}	35				ns
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0 200				μA
Typical Thermal Resistance per leg	$R_{\theta JA}$	62.5				$^\circ\text{C/W}$
	$R_{\theta JL}$	25				
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150				$^\circ\text{C}$

Note: 1.Reverse Recovery Test Conditions: $I_F = 0.5\text{A}, I_R = 1.0\text{A}, I_{RR} = 0.25\text{A}$.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

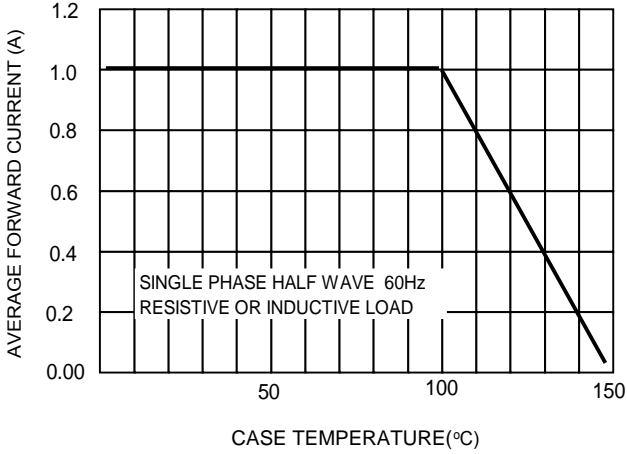


FIG.2 TYPICAL FORWARD CHARACTERISTICS

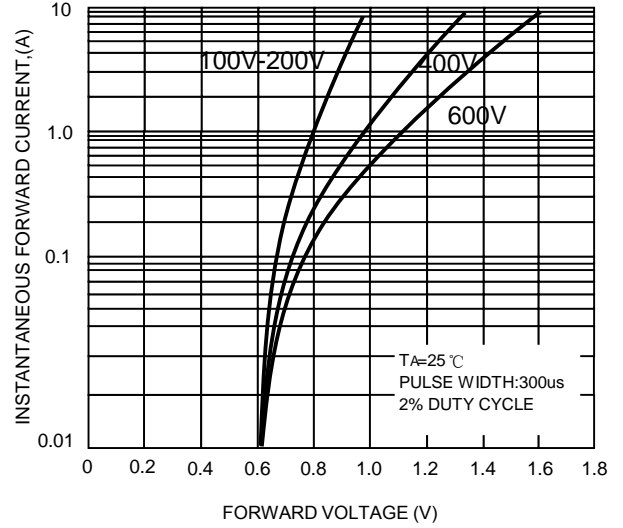


FIG.3 MAXIMUM NON-REPETITIVE

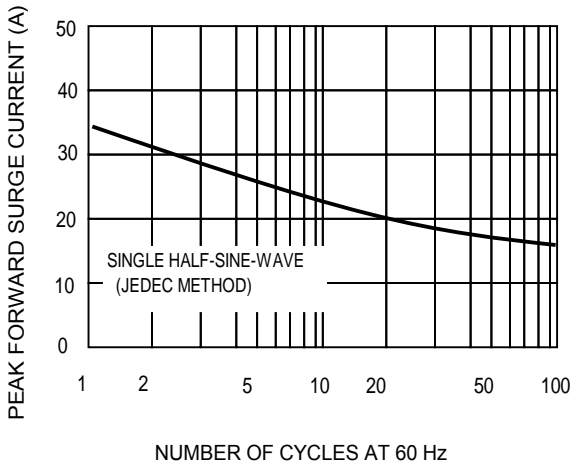
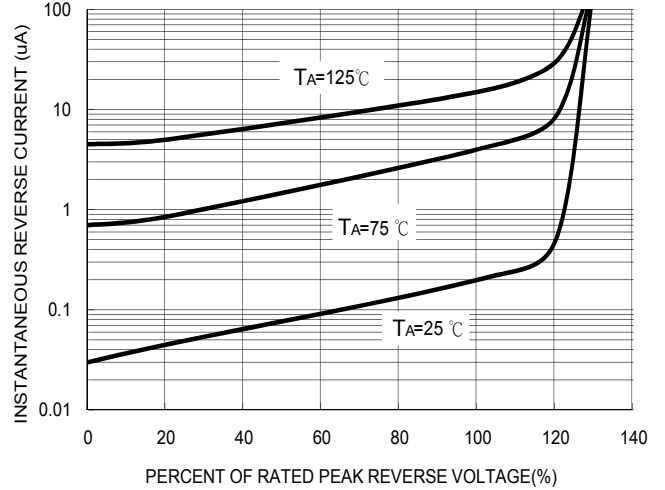
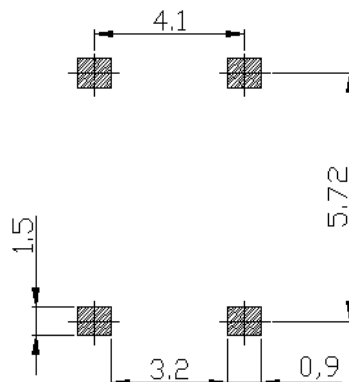


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT



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