Lastinght

EABS2 THRU EABS8

GLASS PASSIVATED SUPER FAST RECOVERY BRIDGE RECTIFIERS

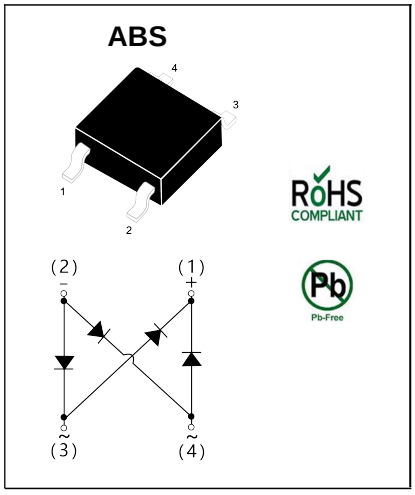
Voltage Range - 200 to 600 Volts Current - 0.8/1.0 Ampere

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260˚C/10 second at 5 lbs., (2.3kg) tension
- Small size,simple installation
- Leads solderable per MIL-STD-202,Method 208
- High surge current capability
- Super fast switching for high efficiency
- Glass passivated chip junction
- Glass compound (halogen&Sb_2O_3 free)

Mechanical Data

- Case: Molded plastic body
- Terminals: Plated lead solderable per MIL-STD-750,Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any



Specification

Maximum Rating And Electrical Characteristics

Ratings at 25˚C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load derate current by 20%.

	SYMBOLS	EABS2	EABS4	EABS6	EABS8	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	V
Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	$I_{F(AV)}$	0.8 1.0				A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30				A
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	0.95		1.25	1.7	V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	5.0 500				uA uA
Typical thermal resistance(NOTE 3)	$R\theta_{JL}$ $R\theta_{JA}$	25 75				℃/W
Maximum reverse recovery time (NOTE 4)	t_{rr}	35				ns
Operating temperature range	T_J	-55 to +150				℃
storage temperature range	T_{STG}	-55 to +150				℃

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads.
2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad.
3.Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.
4.Reverse recovery condition I_F=0.5A,I_R=1.0A,Irr=0.25A.

Ratings and characteristic curves EABS2 thru EABS8

FIG.1 FORWARD DERATING CURVE

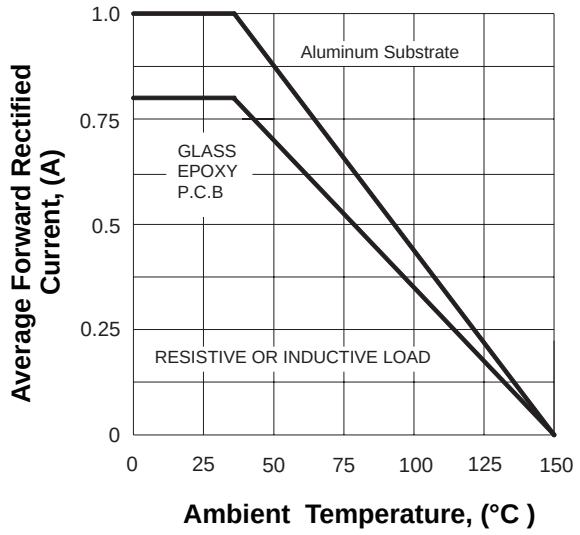


FIG.2 PEAK FORWARD SURGE CURRENT

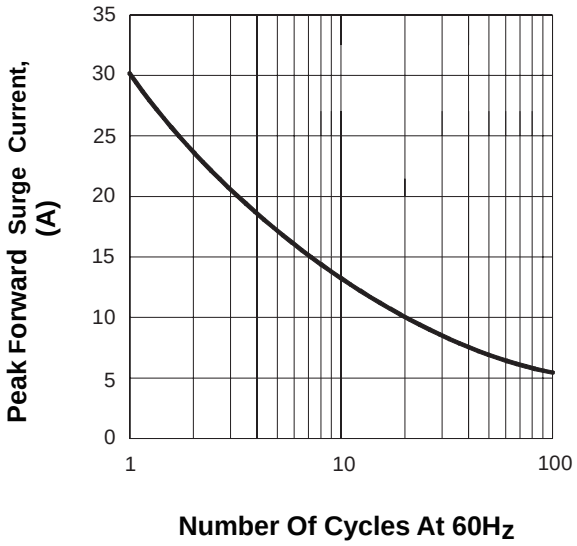


FIG.3 TYPICAL FORWARD CHARACTERISTICS

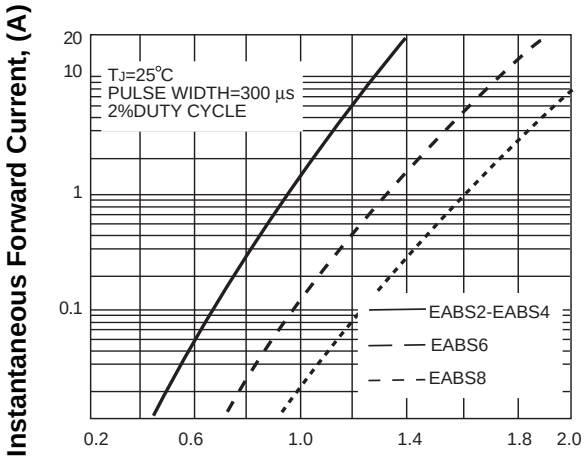
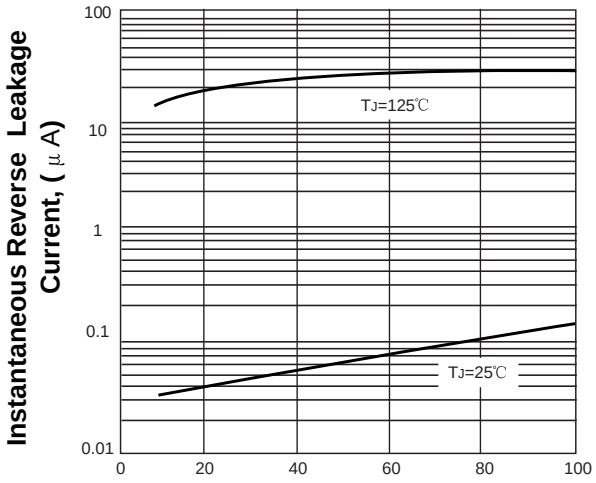
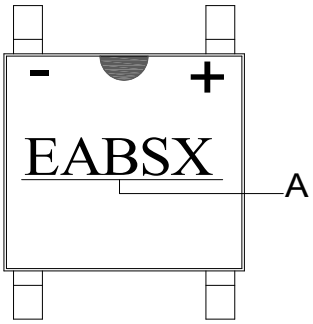


FIG.4 TYPICAL REVERSE CHARACTERISTICS

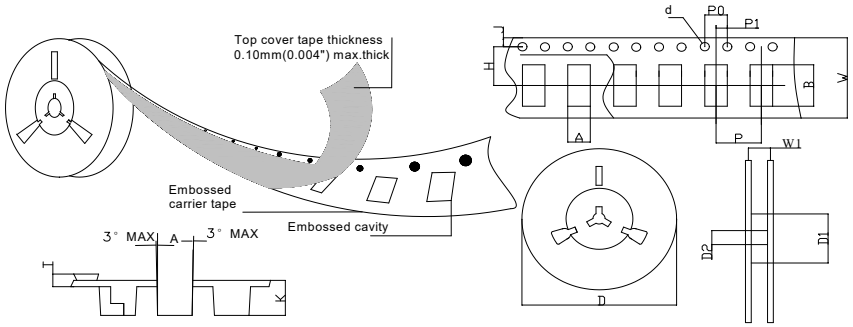


1、Marking



SYMBOL	Explanation
A	Product Name

2、Packaging



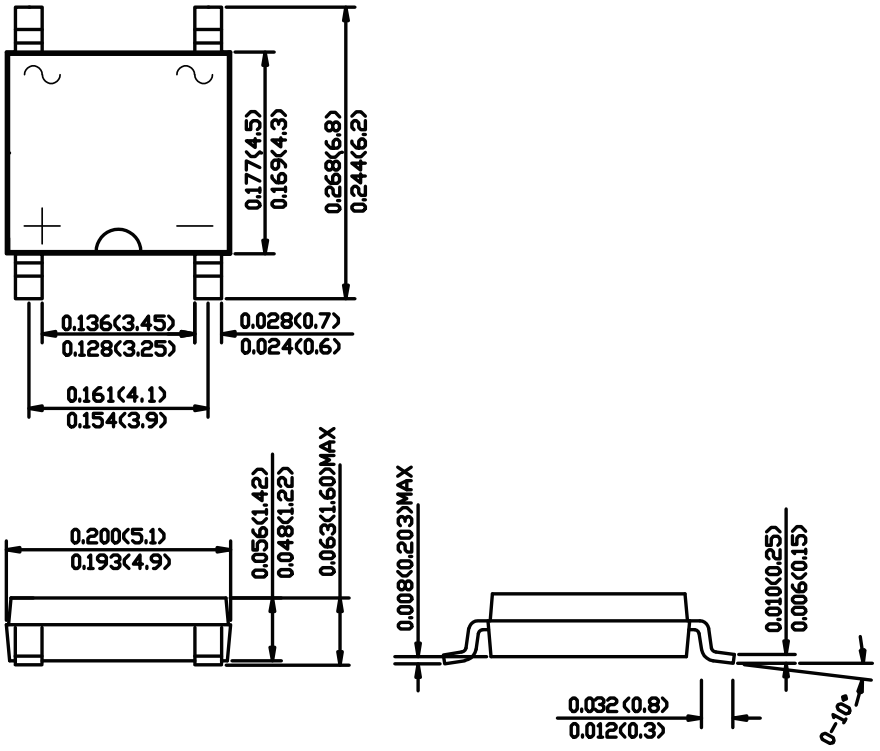
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	ABS	ITEM	SYM BOL	ABS
Carrier width	A	5.45(0.215)Max	Carrier depth	K	1.60(0.063)Typ
Carrier length	B	7.0(0.276)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(2.913)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	12.0(0.472)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	12.4(0.488)Min
Punch hole position	H	5.50(0.217)Typ			

3、Ordering Information

Part Number	Compliance	Case	Packaging
EABSX	Standard	ABS	5000/Tape & Reel

Dimension

ABS



Dimensions in inches and (millimeters)

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