

Surface Mount Super fast Recovery Bridge Rectifier
Reverse Voltage –100 to 600 V
Forward Current – 2 A
FEATURES

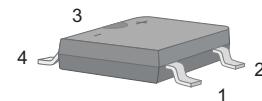
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Super fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg/0.0031oz

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



ABS/LBF Package

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	EABS21	EABS22	EABS24	EABS26	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 at T _c = 125 °C	I _{F(AV)}	2				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50				A
Maximum Forward Voltage at 2 A	V _F	0.95		1.25	1.70	V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100				µA
Typical Junction Capacitance (Note: 1)	C _j	40				pF
Maximum Reverse Recovery Time (Note: 2)	t _{rr}	35				ns
Typical Thermal Resistance (Note: 3)	R _{θJA}	80				°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150				°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

 2. Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

3. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



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EABS21 THRU EABS26

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram

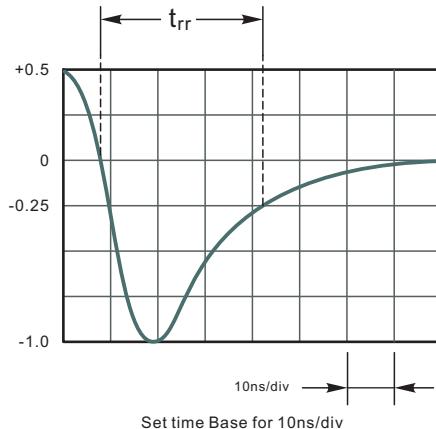
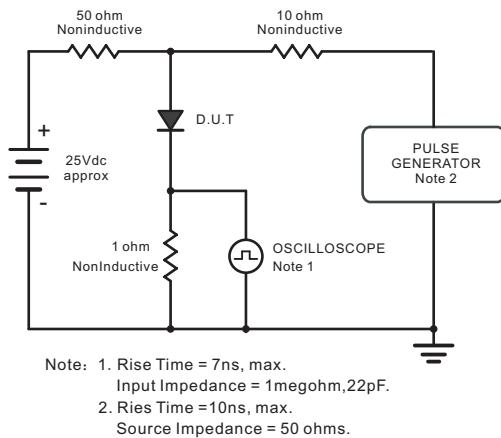


Fig.2 Maximum Average Forward Current Rating

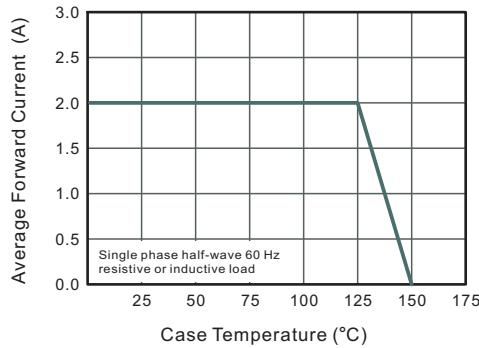


Fig.4 Typical Forward Characteristics

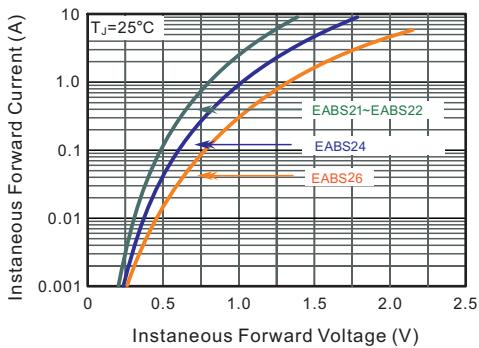


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

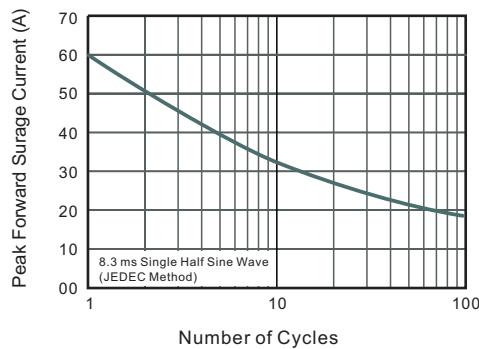


Fig.3 Typical Reverse Characteristics

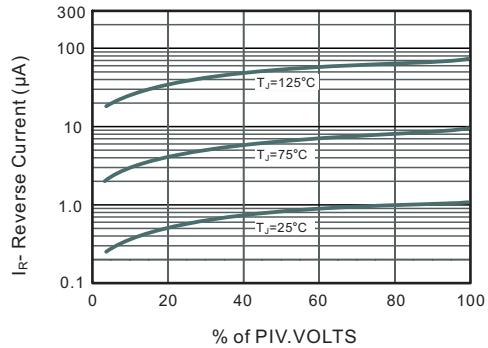


Fig.5 Typical Junction Capacitance

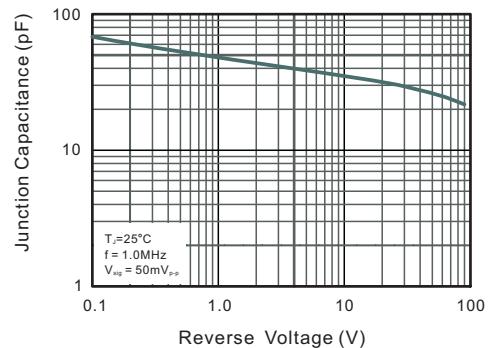
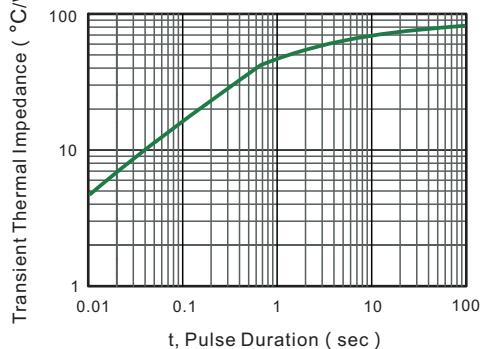
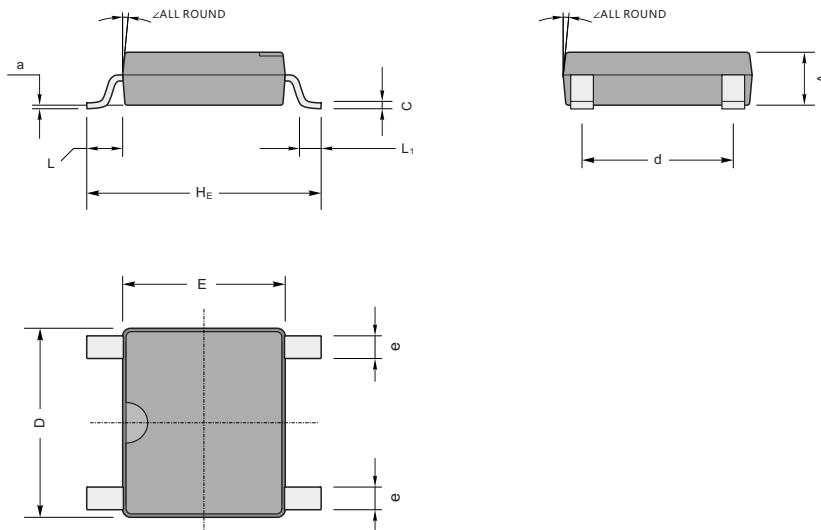


Fig.6-Typical Transient Thermal Impedance

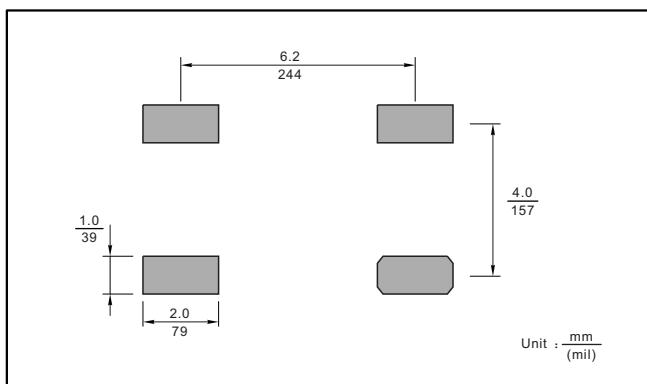


PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF

ABS/LBF mechanical data

UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	<	
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°	
	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5					
mil	max	59	8.7	205	177	252	165	28	37	24	4		
	min	51	5.9	193	166	236	150	20					

The recommended mounting pad size
Marking


Type number	Marking code
EABS21	ETB1S
EABS22	ETB2S
EABS24	ETB4S
EABS26	ETB6S