

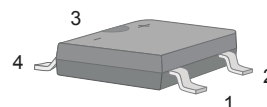
Bridge Rectifier

ABS151 ~ ABS150

■ Features

- Reverse Voltage - 100 to 1000 V
- Forward Current - 1.5 A
- Glass Passivated Chip Junction
- High Surge Current Capability
- Designed for Surface Mount Application

ABS/LBF Package



PIN DESCRIPTION

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

■ Absolute Maximum Ratings and Electrical 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	Symbol	ABS151	ABS152	ABS154	ABS156	ABS158	ABS150	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	
Average Rectified Output Current at Tc=125°C	Io	1.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50						
Forward Voltage per element at If=1.5A	VF	1.1						V
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=125°C	IR	5 100						µA
Typical Junction Capacitance (Note 1)	Cj	25						pF
Typical Thermal Resistance (Note 2)	RthJA RthJC	65 16						°C/W
Junction Temperature	Tj	150						°C
Storage Temperature Range	Tstq	-55 to 150						

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

2. Mounted on glass epoxy PC board with 4 X1.5" X 1.5" (3.81X 3.81 cm) copper pad.

■ Marking

NO.	ABS151	ABS152	ABS154	ABS156	ABS158	ABS150
Marking	15T1	15T2	15T4	15T6	15T8	15T10

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■ Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

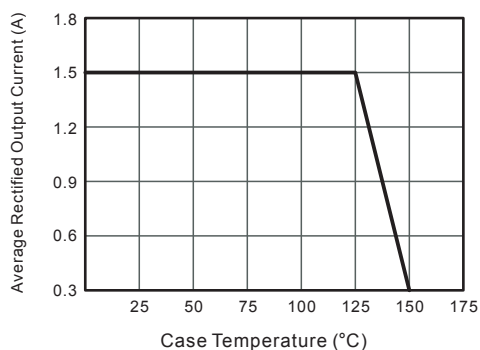


Fig.2 Typical Reverse Characteristics

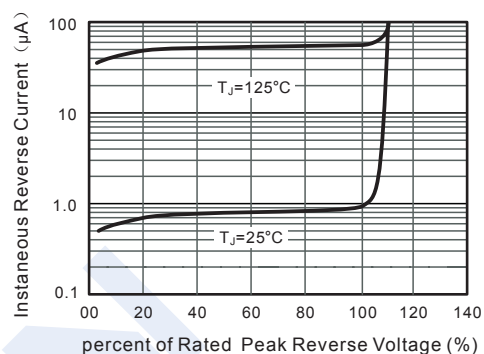


Fig.3 Typical Instantaneous Forward Characteristics

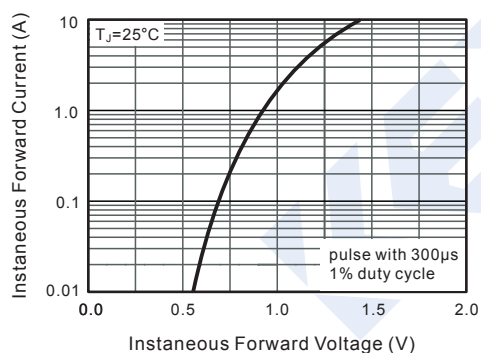


Fig.4 Typical Junction Capacitance

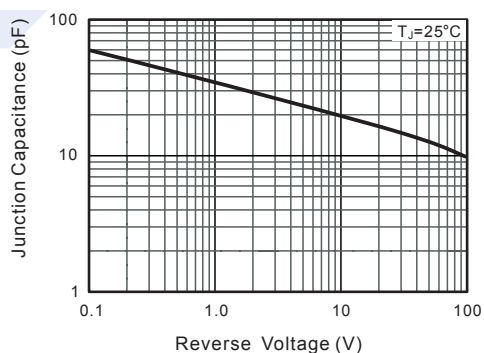
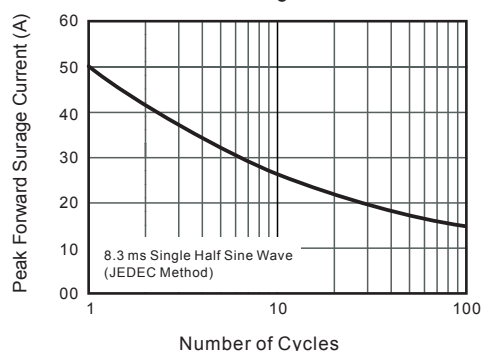


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



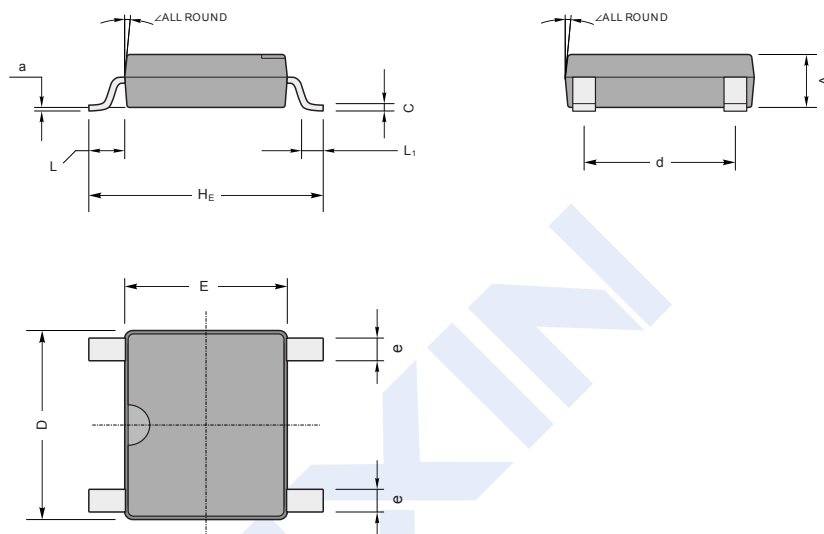
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■ Package Outline Dimensions

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

