

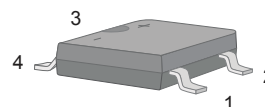
Bridge Rectifier

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 $T_C=125^\circ\text{C}$	I_o	1.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50						
Forward Voltage per element at $I_F=1.5\text{A}$	V_F	1.1						V
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	5 100						μA
Typical Junction Capacitance (Note 1)	C_j	25						pF
Typical Thermal Resistance (Note 2)	R_{thJA} R_{thJC}	65 16						$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150						$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-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.

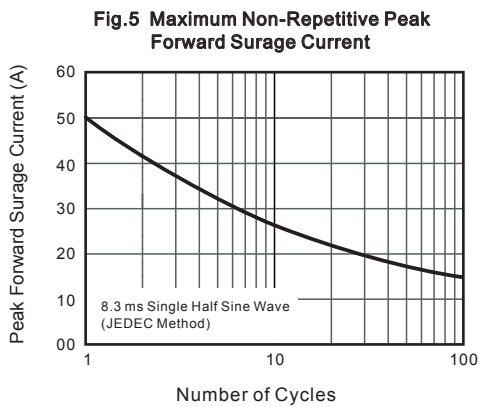
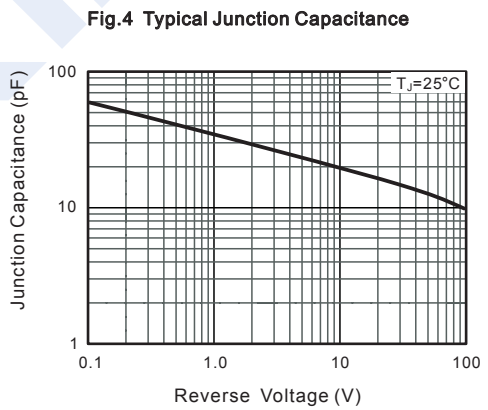
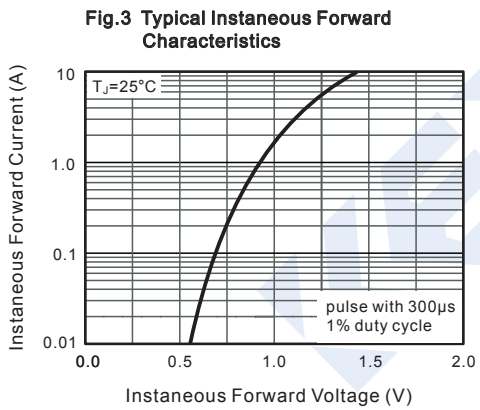
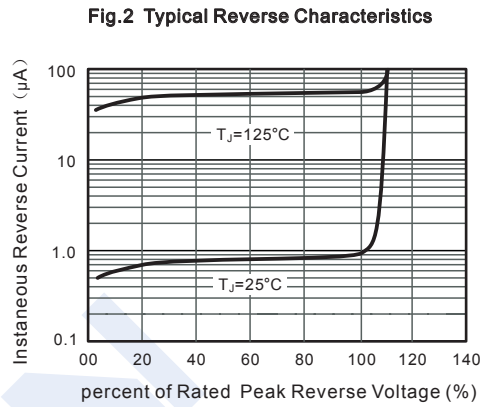
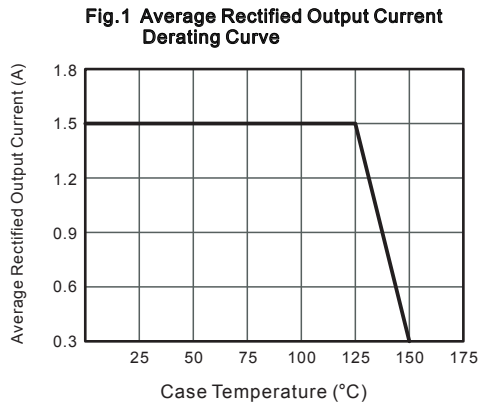
■ Marking

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

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■ Typical Characteristics

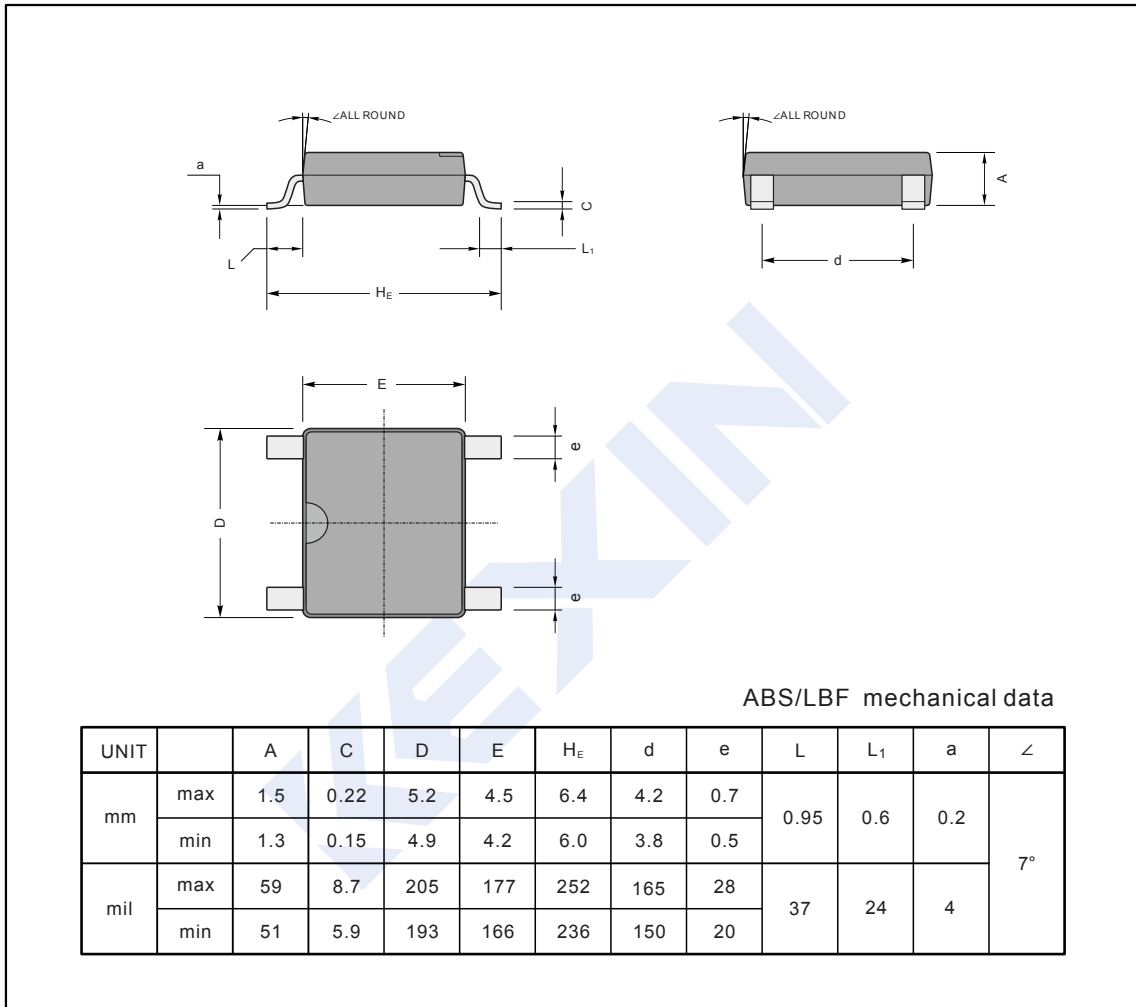


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■ Package Outline Dimensions

Plastic surface mounted package; 4 leads

ABS/LBF



■ The Recommended Mounting Pad Size

