

ABS201 THRU ABS210



Glass Passivated Bridge Rectifiers

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Ampere

RoHS Device



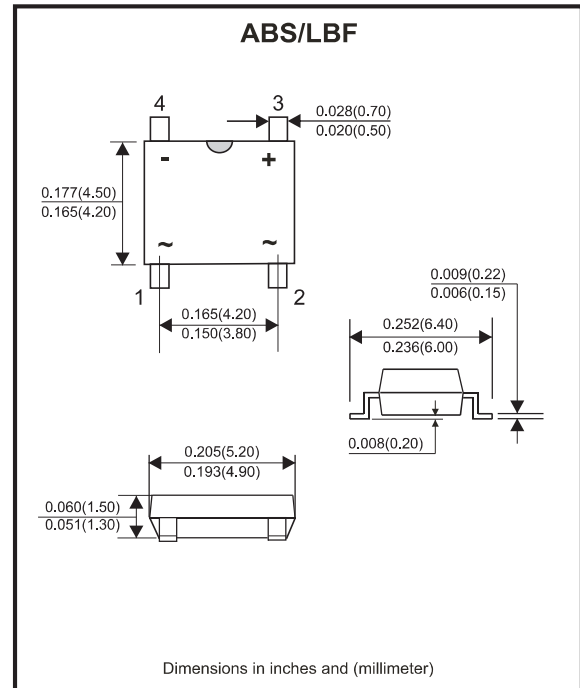
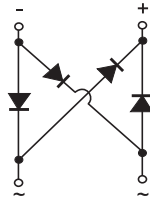
Features

- High surge current capability.
- Designed for surface mount application.

Mechanical data

- Case: ABS/LBF, molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026.

Circuit Diagram



Maximum Rating and Electrical Characteristics

Rating at $T_A=25^{\circ}\text{C}$, unless otherwise noted.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbol	ABS201	ABS202	ABS203	ABS204	ABS206	ABS208	ABS210	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average rectified output current at $T_C=115^{\circ}\text{C}$	I_O	2.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	55							A
Maximum Forward Voltage at 1.0A DC	V_F	1.0							V
Maximum DC Reverse Current @ $T_J=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_J=125^{\circ}\text{C}$	I_R	5.0 100							μA
Typical thermal resistance (Note 2)	$R_{\theta JA}$	60							$^{\circ}\text{C/W}$
	$R_{\theta JC}$	16							$^{\circ}\text{C/W}$
Typical junction capacitance (Note 1)	C_j	25							pF
Operating and storage temperature range	T_J, T_{stg}	-55 to +150							$^{\circ}\text{C}$

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

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

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Rev:1.0

Rating and Characteristic Curves

Fig.1 - Average Rectified Output Current Derating Curve

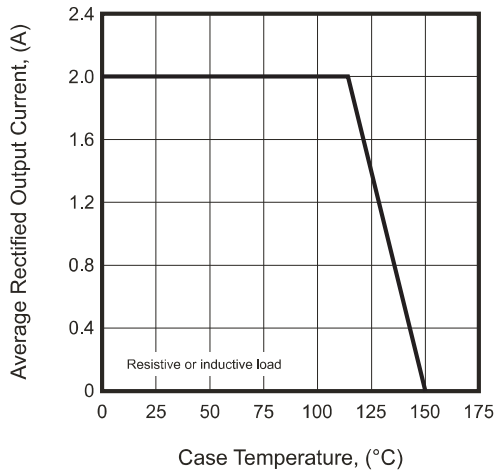


Fig.2 - Typical Reverse Characteristics

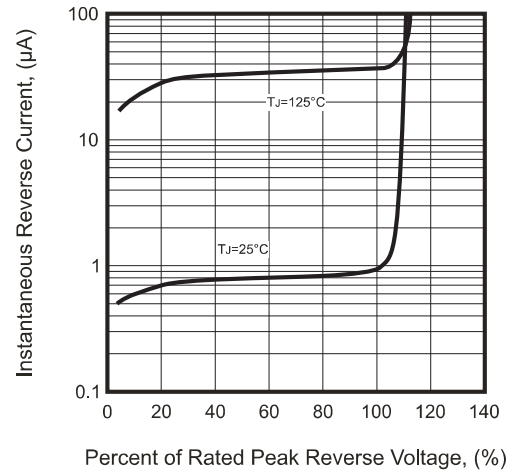


Fig.3 - Typical Instantaneous Forward Characteristics

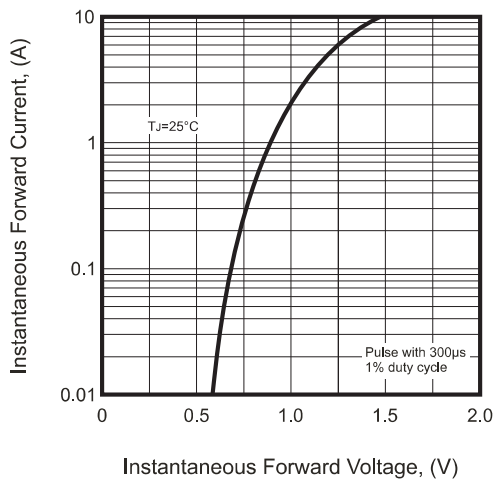


Fig.4 - Typical Junction Capacitance

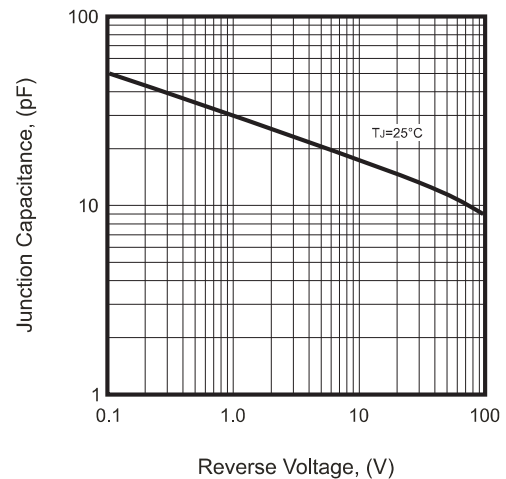
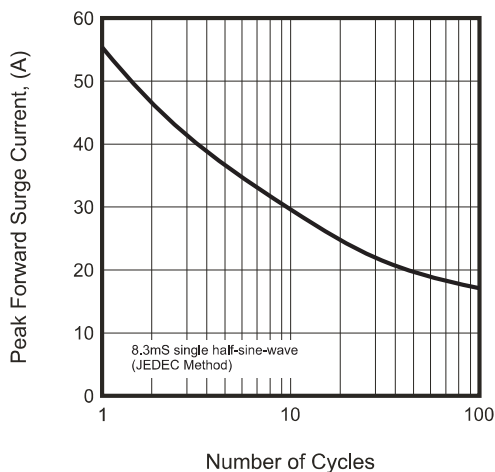
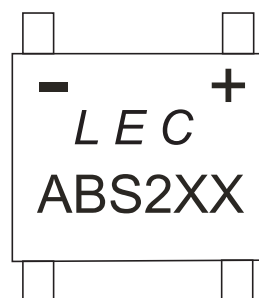


Fig.5 - Max. Non-Repetitive Peak Forward Surge Current



Marking Code

Part Number	Marking code
ABS201	ABS201
ABS202	ABS202
ABS203	ABS203
ABS204	ABS204
ABS206	ABS206
ABS208	ABS208
ABS210	ABS210

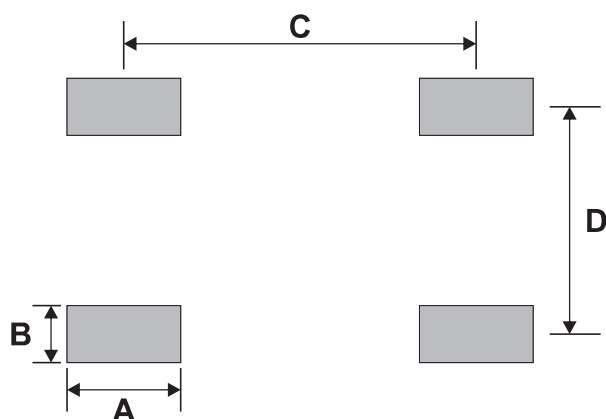


LEC = Longmacro Logo

XX = Product type marking code

Suggested PAD Layout

SIZE	ABS/LBF	
	(mm)	(inch)
A	2.00	0.079
B	1.00	0.039
C	6.20	0.244
D	4.00	0.157



Note: 1. The pad layout is for reference purpose only.

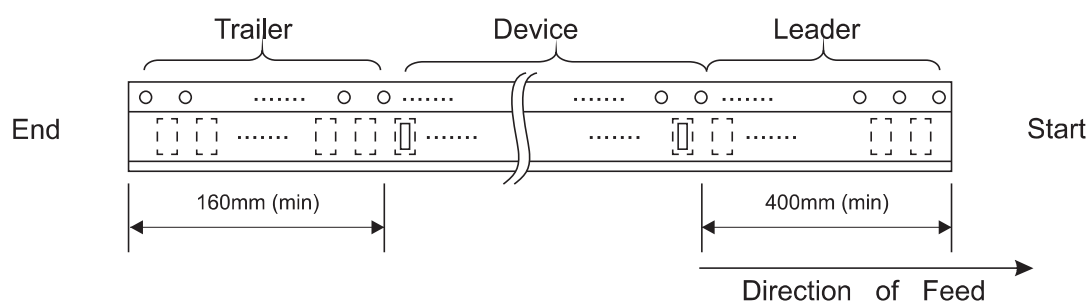
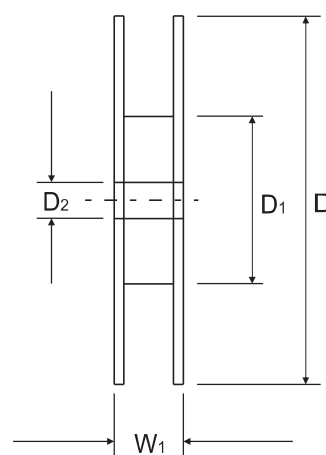
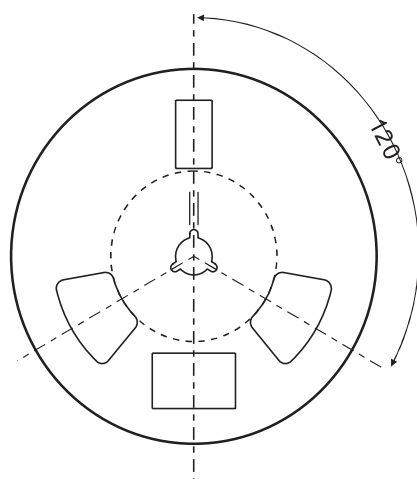
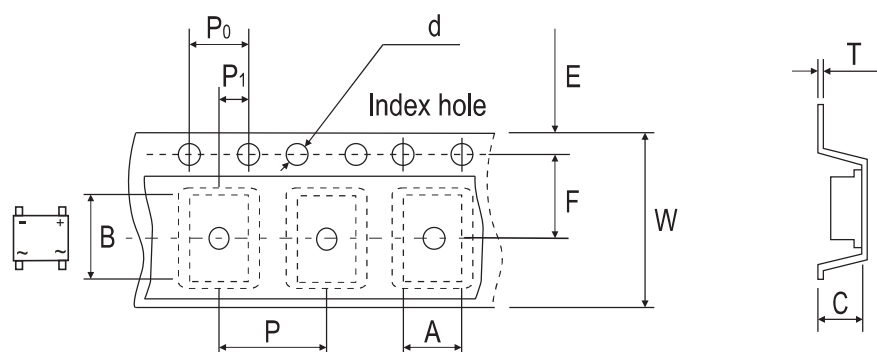
Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
ABS/LBF	5,000	13

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Reel Taping Specification



ABS/LBF	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	5.31 ± 0.10	6.70 ± 0.10	1.59 ± 0.10	1.50 ± 0.10	330 ± 2.00	75 ± 1.00	13.00 ± 0.20
	(inch)	0.209 ± 0.004	0.264 ± 0.004	0.063 ± 0.004	0.059 ± 0.004	12.992 ± 0.079	2.953 ± 0.039	0.512 ± 0.008

ABS/LBF	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.26 ± 0.05	12.00 ± 0.30	$14.70 + 2.00 - 1.00$
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.002	0.472 ± 0.012	$0.579 + 0.079 - 0.039$

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