

Descriptions

2.0A Surface Mount Glass Passivated Bridge Rectifier, ABS/LBF thin package.

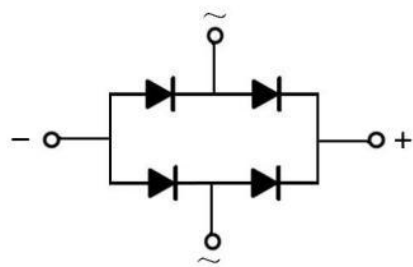
Features

- Glass Passivated Chip Junction
- Reverse Voltage:100to1000V,Forward Current:2.0A
- High Surge Current Capability
- Designed for Surface Mount Application
- Halogen free product

Applications

General purpose

Equivalent Circuit

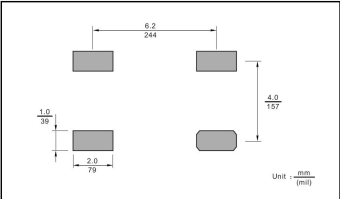


Pinning



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

The recommended mounting pad size



Marking

See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating						Unit
		ABS201	ABS202	ABS204	ABS206	ABS208	ABS210	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T _L = 100℃	I _o	2.0						A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I _{FSM}	60						A
Current Squared Time@1ms≤t<8.3ms, T _a =25℃, Rating of per diode	I ² T	12						A ² Sec
Typical Junction Capacitance (Note1)	C _j	25						pF
Typical Thermal Resistance (Note2)	R _{θJA}	65						℃/W
	R _{θJc}	20						
Operating and Storage Temperature Range	T _j , T _{stg}	-55~150						℃

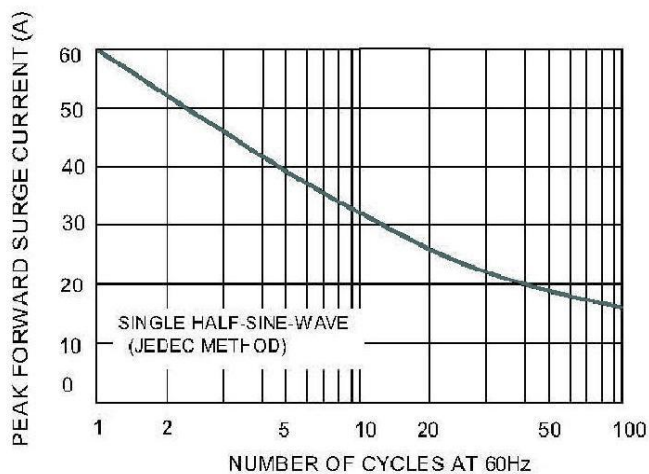
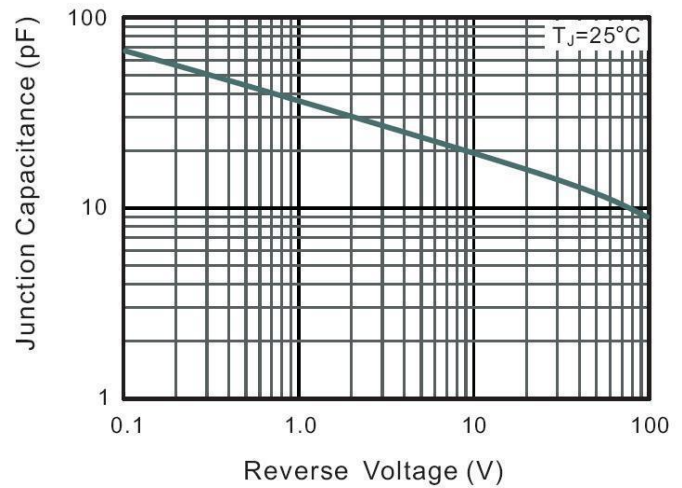
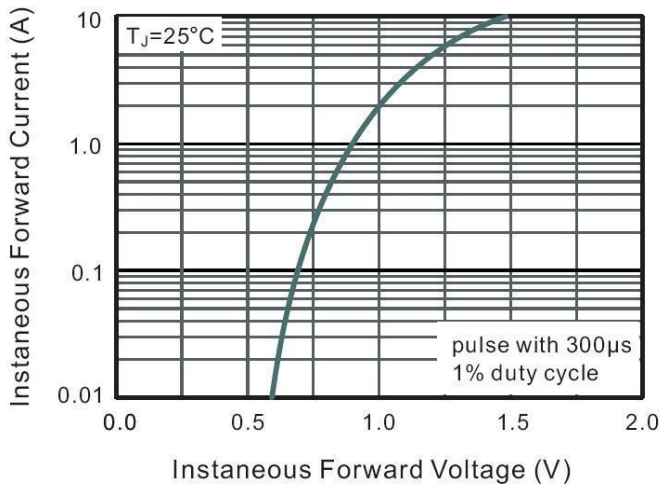
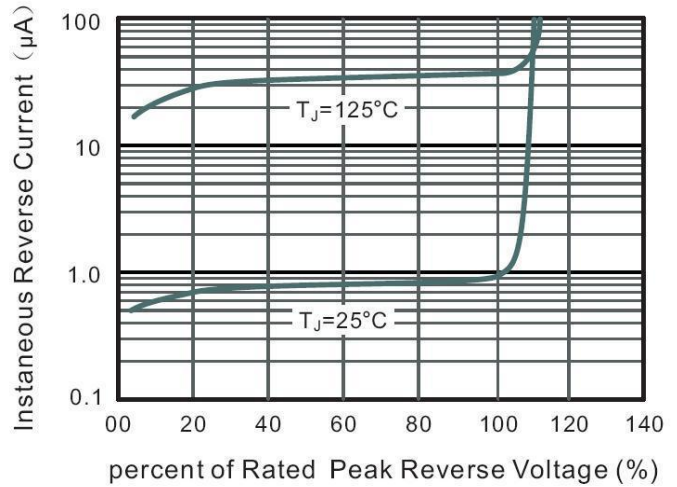
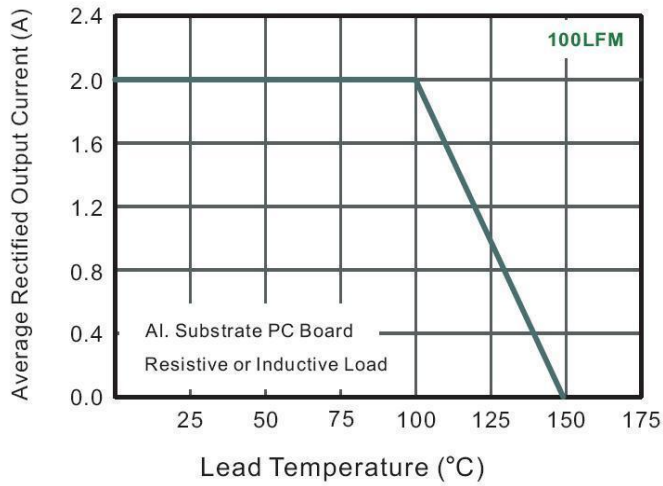
Note:

- 1.Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2.Mounted on glass epoxy PC board with 4×(5×5mm²) copper pad.

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating						Unit
			ABS201	ABS202	ABS204	ABS206	ABS208	ABS210	
Forward Voltage per element	V _F	I _F =2.0A	1.0						V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25°C	5.0						μA
		T _a =125°C	100						μA

Electrical Characteristic Curve



Marking Instructions



Marking

Type number	Marking code
ABS201	ABS201
ABS202	ABS202
ABS204	ABS204
ABS206	ABS206
ABS208	ABS208
ABS210	ABS210

Note:
ABS210: Product Type Code
*****: Lot No. Code, The 1st * means:YM Code,
The last 3 * means:little Lot No Code

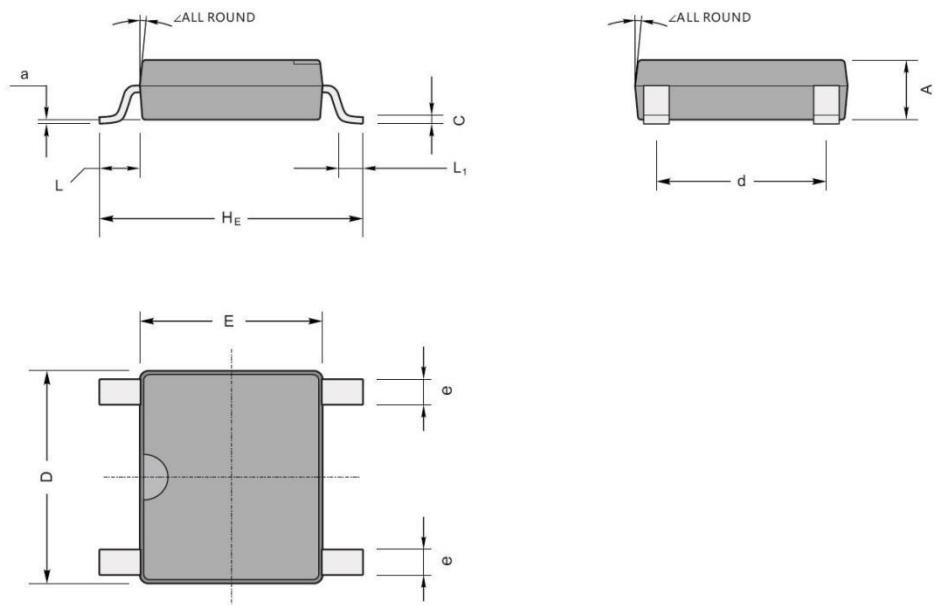
Packaging SPEC

REEL

Package Type	Units					Dimension(unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
ABS/LBF	5000	2	10000	5	50000	13" ×15	336X336X40	380X335X366

Package Outline Dimensions

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				