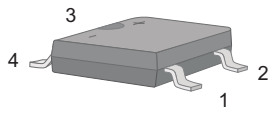
Bridge Rectifier

ABS201 ~ ABS210(KBS201 ~ KBS210)

ABS/LBF Package



PIN DESCRIPTION

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

■ Features

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 2A
- High Surge Current Capability
- Designed for Surface Mount Application

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	ABS 201	ABS 202	ABS 204	ABS 206	ABS 208	ABS 210	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
RMS Voltage	V_{RSM}	70	140	280	420	560	700	
DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	
Forward Voltage @ I_F=2A	V_F	1						
Average Rectified Output Current @ Tc=115℃	I_O	2						A
Peak Forward Surge Current @ 8.3ms	I_{FSM}	50						
Maximum DC Reverse Current Ta=25℃	I_R	5						μA
Maximum DC Reverse Current Ta=125℃		100						
Typical Junction Capacitance *1	Cj	25						pF
Thermal Resistance.Junction- to-Ambient *2	$R_{\theta JA}$	60						°C/W
Thermal Resistance.Junction- to-Lead *2	$R_{\theta JL}$	16						
Junction Temperature	Tj	150						℃
Storage Temperature	Tstg	-55 to 150						

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

* 2. Mounted on glass epoxy PC board with 4×1.5″ ×1.5″ (3.81×3.81 cm) copper pad.

■ Marking

NO.	ABS201	ABS202	ABS204	ABS206	ABS208	ABS210
Marking	ABS201	ABS202	ABS204	ABS206	ABS208	ABS210

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■ Typical Characterisitics

Fig.1 Average Rectified Output Current Derating Curve

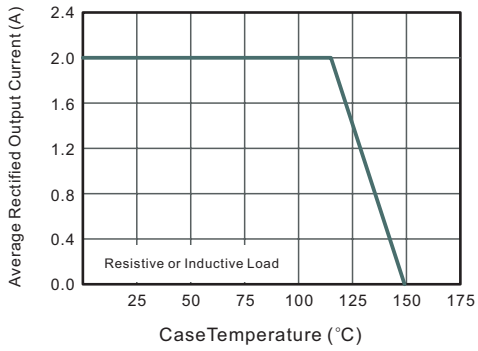


Fig.2 Typical Reverse Characteristics

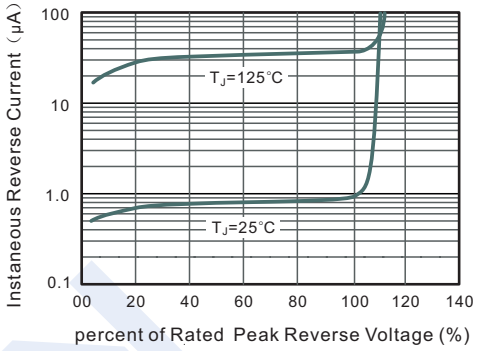


Fig.3 Typical Instaneous Forward Characteristics

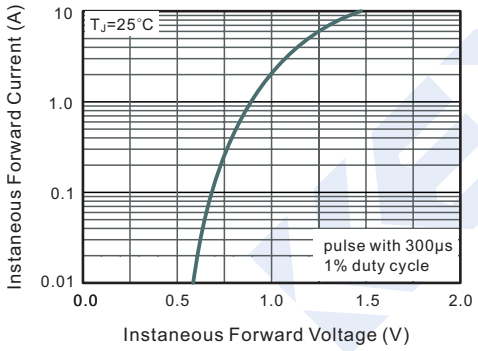


Fig.4 Typical Junction Capacitance

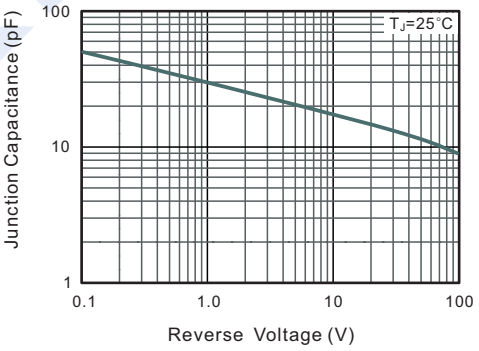
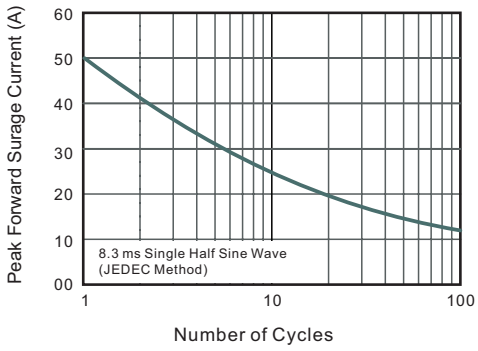


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



Bridge Rectifier

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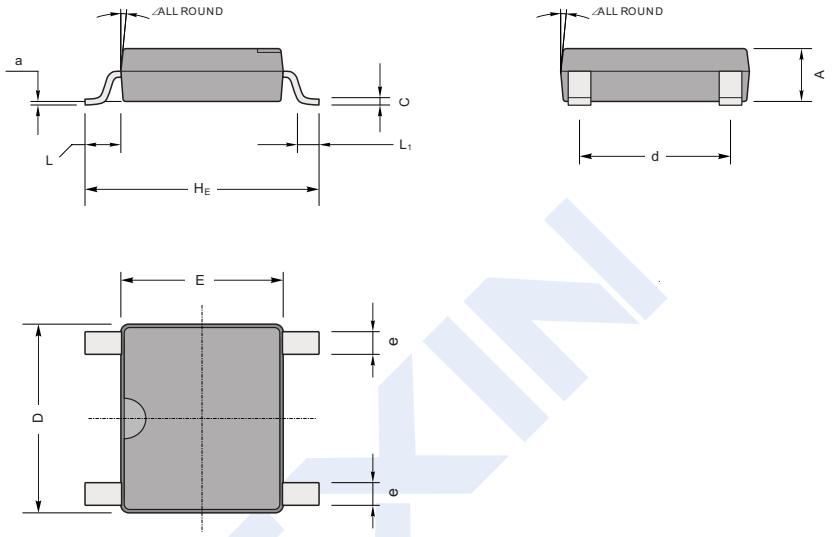
■ Package Outline Dimensions

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