ABS202 THRU ABS210

BRIDGE RECTIFIERS

VOLTAGE	50~1000 Volts	CURRENT	2.0 Ampers	ABS	Unit:Inch(mm)

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260℃ / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- Small size, simple installation
  Pure tin plated terminal , Lead free. Leads solderable per MIL-STD-202, Method 208
- High surge current capability



Remark:
(1).+ , - =Polarity mark;
(2).NH=niuhang trademark;
(3).ABSXX=Modle;

MECHANICAL DATA

- Case: Molded plastic body
- Mounting position : as Marking

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C(UNLESS OTHERWISE NOTED)

Single phase,half wave,60Hz,resistive or inductive load.For capacitive load,derate current by 20%

Parameter	Symbol	ABS 202	ABS 204	ABS 206	ABS 208	ABS 210	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	100	V
Maximum RMS Voltag	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ TC=100°C (see fig.1)	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rate Load (JEDEC Method)	I_{FSM}	55					A
Current Squared Time Per Diode(t<8.3ms)	I^2t	14.94					A^2sec
Maximum Forward Voltage Per Diode @2.0A (Note 1)	V_{FM}	1.1					V
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 2) T_C=25℃	I_{RRM}	10					uA
T_C=150℃		500					
Typical thermal resistance — Between junction and lead	$R_{\theta JL}$	25					℃/W
Typical thermal resistance — Between junction and ambient,On Glass-Epoxy Substrate	$R_{\theta JA}$	62.5					℃/W
Operating Junction Temperature Range	T_J	150					℃
Storage Temperature Range	T_{STD}	-55 to +150					℃

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle
2.Pulse test: pulse width≤40ms

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Pb-Free RoHS COMPLIANT

RATING AND CHARACTERISTIC CURVES

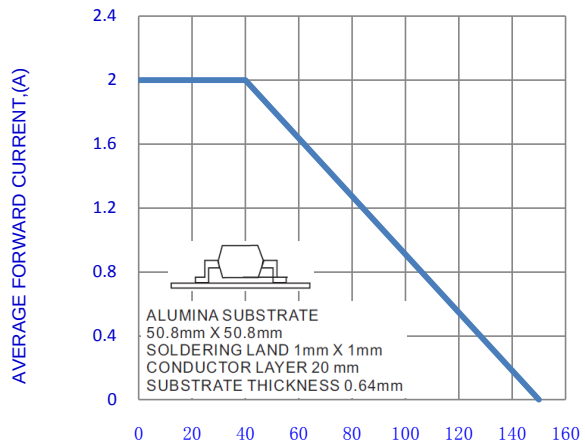


Fig.1-FORWARD CURRENT DERATING CURVE

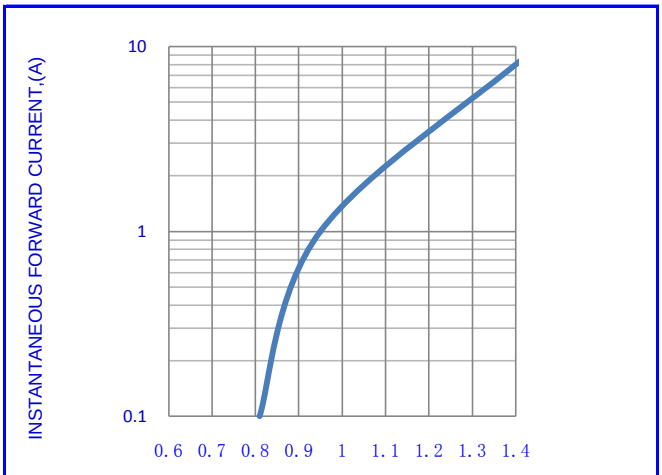


Fig.2- TYPICAL INSTANTANEOUS FORWARD

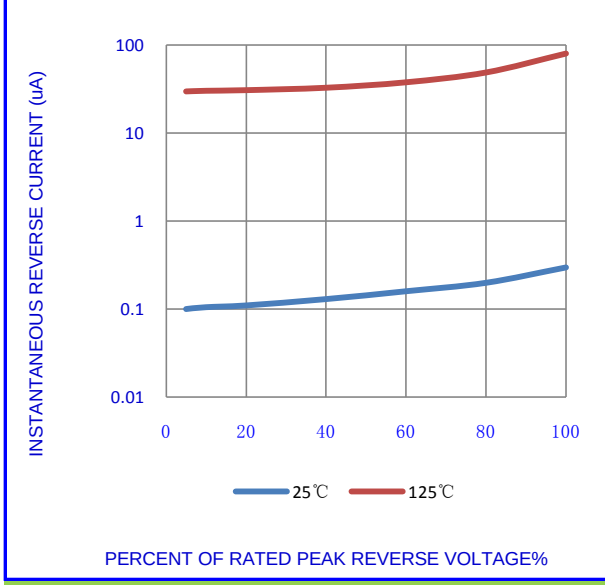


Fig.3- TYPICAL REVERSE CHARACTERISTICS

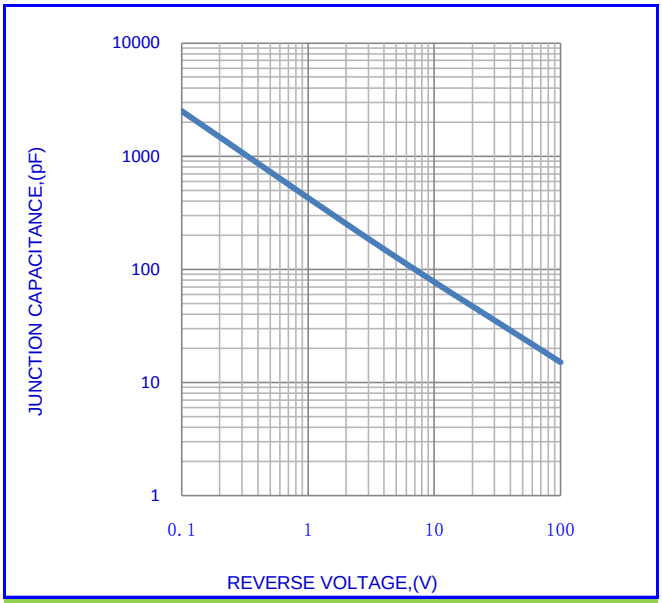


Fig.4- TYPICAL JUNCTION CAPACITANCE

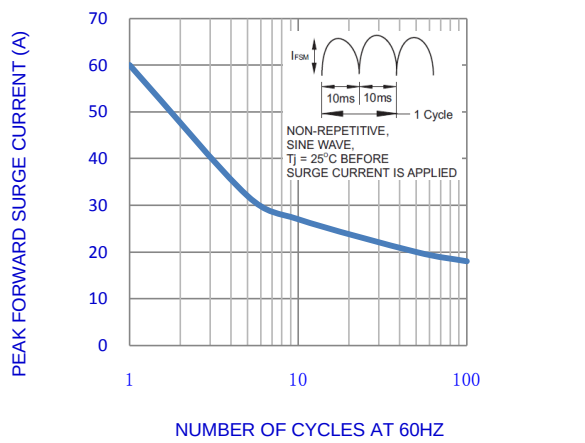


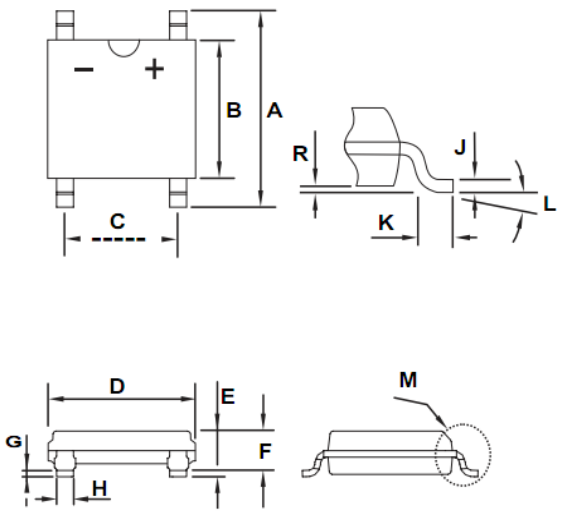
Fig.5-MAX. NON-REPETITIVE SURGE CURRENT

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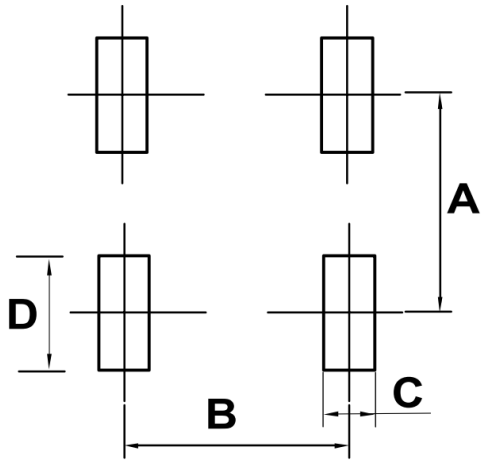
OUTLINE DRAWINGS



OUTLINE DIMENSIONS						
DIM	MILLIME TERS			INCHES		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	6.200	-	6.800	0.24409	-	0.2677
B	4.300	-	4.500	0.16929	-	0.1772
C	3.800	-	4.400	0.14961	-	0.1732
D	4.900	-	5.400	0.19291	-	0.2126
E	1.220	-	1.420	0.04803	-	0.0559
F	-	-	1.500	-	-	0.0591
G	0.050	-	0.150	0.00197	-	0.0059
H	0.550	-	0.850	0.02165	-	0.0335
J	0.150	-	0.250	0.00591	-	0.0098
K	0.200	-	1.500	0.00787	-	0.0591
L	0.000	-	10.000	0	-	0.3937
R	0.050	-	0.150	0.00197	-	0.0059

MBF

MOUNTING PAD LAYOUT



OUTLINE DIMENSIONS						
DIM	MILLIME TERS			INCHES		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A		5.720			0.2252	
B		4.100			0.1614	
C		0.900			0.0354	
D		1.500			0.0591	

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Packing Information

Product code	Pack	Quantity (pcs/box)	Box Size L×W×H (mm)	Carton Size L×W×H (mm)	Quantity (box/carton)
ABS	T/R	6000	340×340×40	360×360×60	10

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