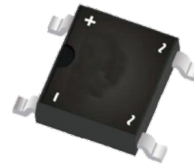
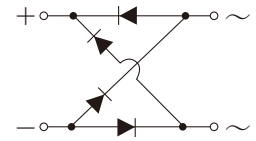


FEATURES

- | The Plastic Material Used Carries Underwriters Laboratory Flammability Recognition 94V-0
- | Ideal For Printed Circuit Board Application



ABS



Schematic Symbol

MECHANICAL DATA

- | Case: Molded Plastic
- | Terminals: Plated Leads Solderable Per MIL-STD-202, Method 208
- | Polarity: Marked On Body
- | Mounting Position: Any

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	ABS 2005	ABS 201	ABS 202	ABS 204	ABS 206	ABS 208	ABS 210	Unit
Marking		ABS2005	ABS201	ABS202	ABS204	ABS206	ABS208	ABS210	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Output Current At T _c =100°C	I _{F(AV)}	2							A
Peak Forward Surge Current Single Sine-wave Superimposed On Rated Load (Jedec Method)	I _{FSM}	50							
Maximum Instantaneous Forward Voltage Drop Per Leg at 2A	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	I _R	10							μA
		500							
Typical Thermal Resistance Per Element (1)	R _{θJA}	25							°C/W
Rating For Fusing (t<8.3ms)	I ² t	15							A ² sec
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Notes: (1) Thermal Resistance From Junction to Ambient on P.C. board Mounting.

CHARACTERISTIC CURVES

Fig. 1- Derating Curve for Output Rectified Current

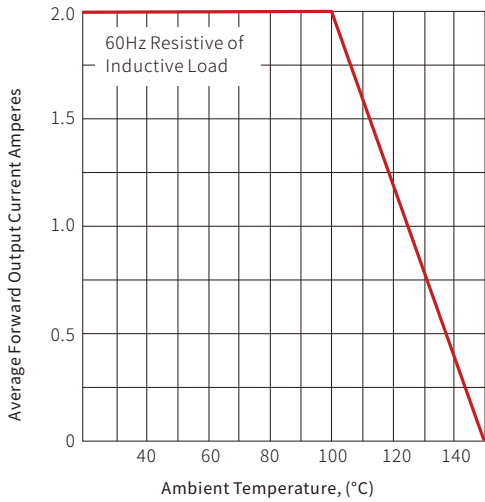


Fig. 2- Maximum Non-Repetitive Peak Forward Surge Current

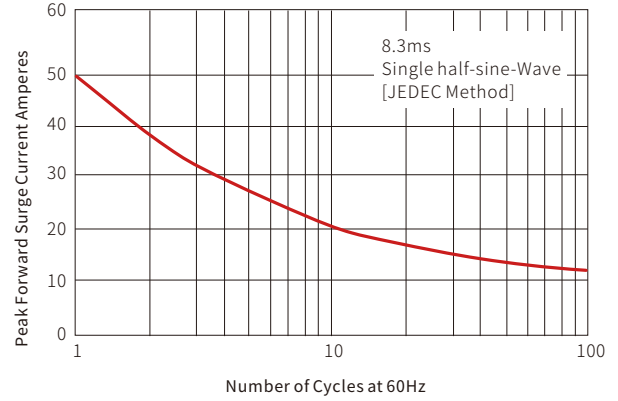


Fig. 3- Typical Instantaneous Forward Characteristics

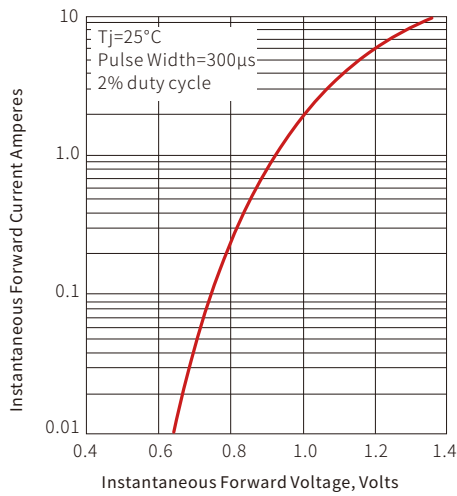


Fig. 4- Typical Reverse Characteristics

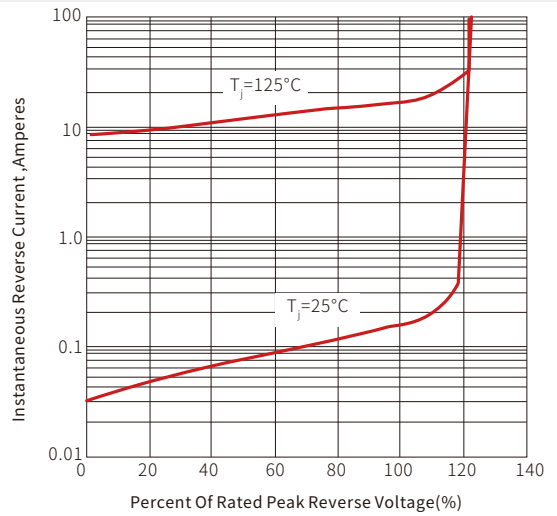
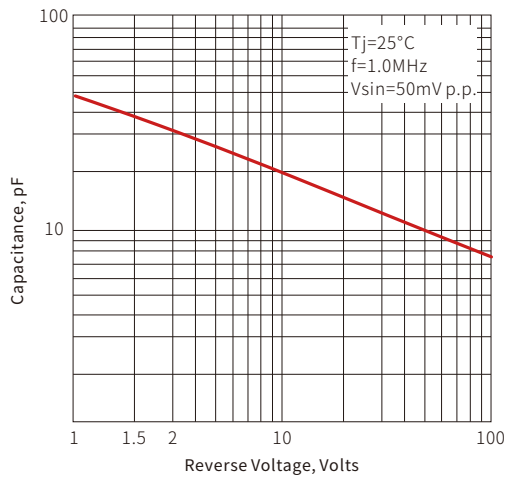
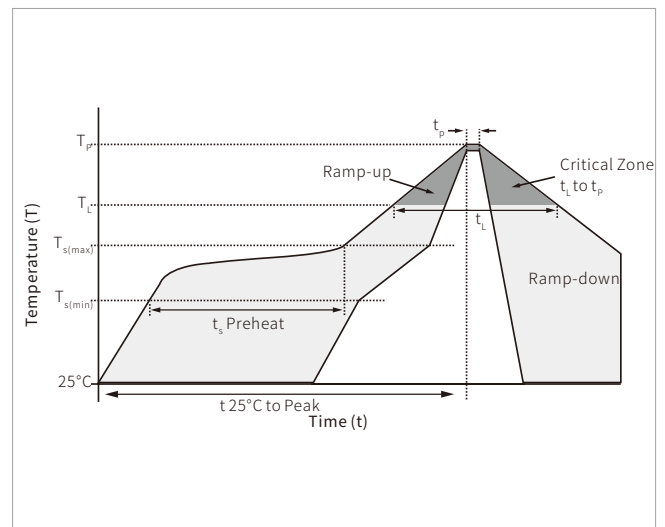


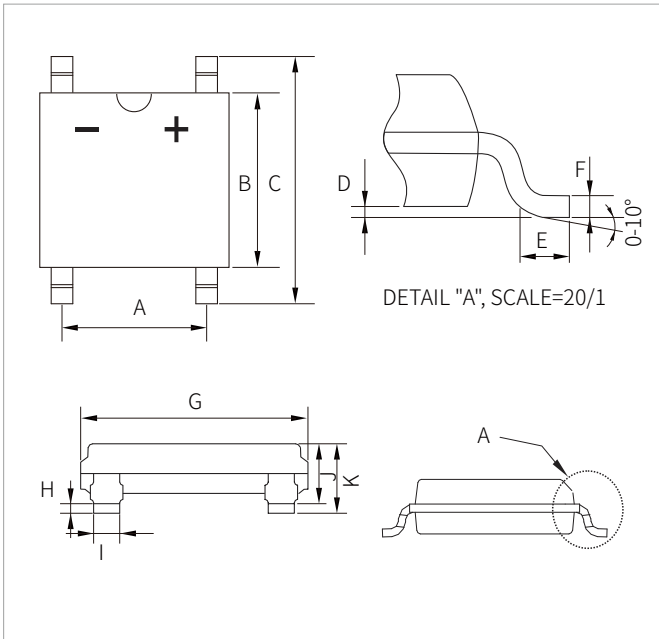
Fig. 5-Typical Junction Capacitance


SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(\text{min})}$)	150°C
	Temperature Max ($T_{s(\text{max})}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(\text{max})}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C



ABS PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.80	4.40	0.150	0.174
B	4.30	4.50	0.169	0.177
C	6.20	6.80	0.244	0.268
D	0.05	0.15	0.002	0.006
E	0.20	1.50	0.008	0.059
F	0.15	0.25	0.006	0.010
G	4.90	5.40	0.193	0.210
H	0.05	0.15	0.002	0.006
I	0.55	0.85	0.022	0.033
J	1.22	1.42	0.048	0.056
K	1.50Max.		0.059Max.	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
ABS2005-ABS210	ABS	5000PCS	13"

Headquarters

No.3387 Shendu Road
Pujiang I&E Park
Minhang Shanghai China
201000

Hotline

400-021-5756

Web

<https://www.semiware.com>

Sales Center

Tel: 86-21-3463-7458
Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001
Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654
Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

By QR Code

Website



Wechat

To find your local partner within Semiware' s global website: www.semiware.com

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