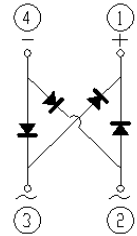
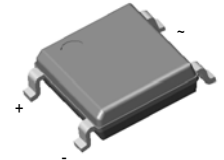


## Single-Phase Glass Passivated Bridge Rectifier

### Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Moisture sensitivity: level 1, per J-STD-020
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21 definition



### Applications

For use of general purpose AC to DC bridge rectification in power supply, charger, office appliance, home appliance and telecom device

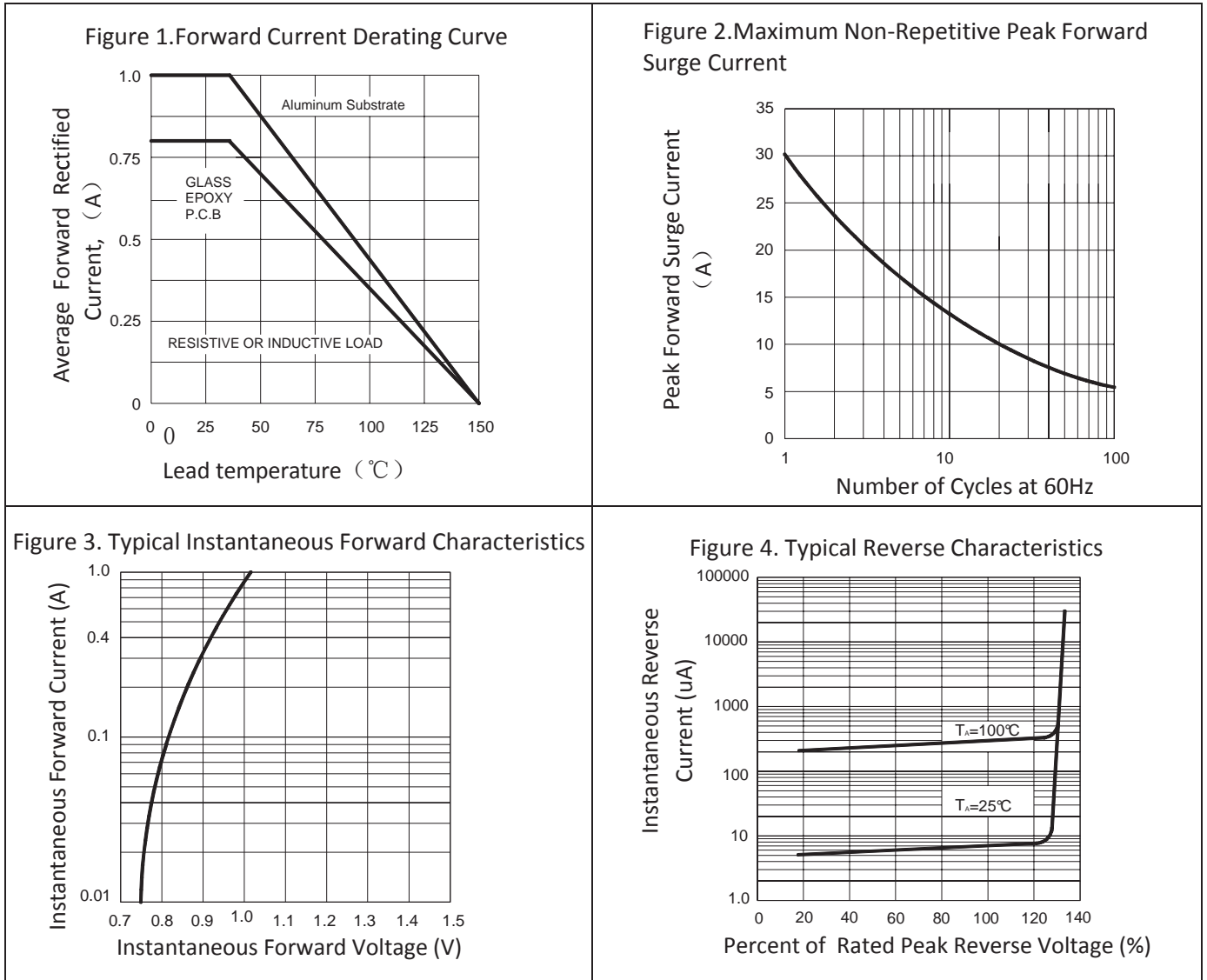
Absolute Maximum Ratings							
Ratings at 25 °C, ambient temperature unless otherwise specified							
Parameter	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Output Rectified Current	$I_{O(AV)}$	1.0					A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	$I_{FSM}$	30					A
Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	3.7					A <sup>2</sup> sec
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	- 55 to + 150					°C

Electrical Characteristics								
(T <sub>A</sub> = 25 °C unless otherwise specified)								
Parameter	Test Conditions	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Instantaneous Forward Voltage	$I_F = 1.0A$	$V_F$	1.0					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ C$ $T_A = 125^\circ C$	$I_R$	10.0					μA
Typical Junction Capacitance	4.0 V, 1 MHz	$C_J$	10					pF

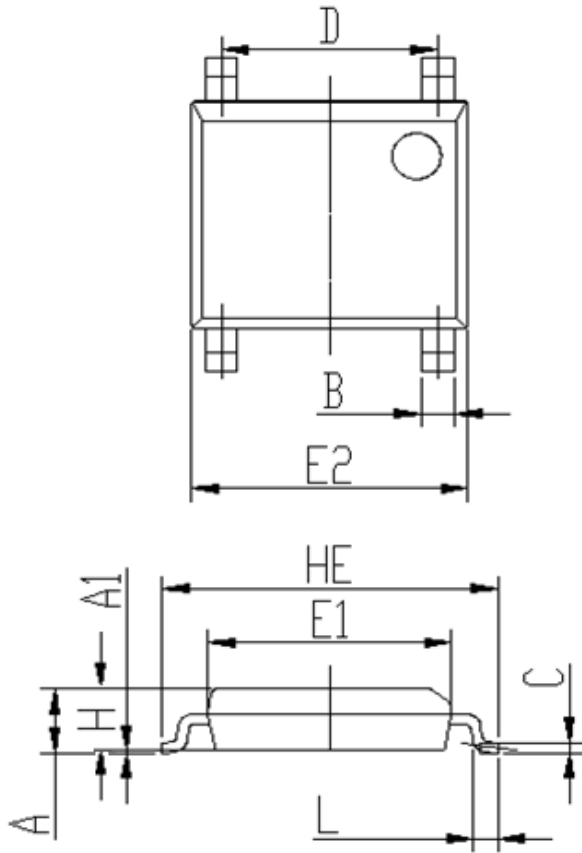
Thermal Characteristics							
Parameter	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Typical Thermal Resistance <sup>(1)</sup>	$R_{\theta JA}$	80					°C/W
	$R_{\theta JL}$	25					

Notes: 1. Mounted on FR-4 P.C.B Board

**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



**Package Dimensions**



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.25	1.35	0.049	0.053
A1	0.00	0.15	0.000	0.006
B	0.50	0.70	0.020	0.028
C	0.15	0.30	0.006	0.012
D	3.80	4.20	0.150	0.165
E1	4.40	4.60	0.173	0.181
E2	5.00	5.20	0.197	0.205
L	0.25	0.65	0.010	0.026
HE	6.00	6.40	0.236	0.252
H	1.20	1.30	0.047	0.051

**Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
ABS2 Thru ABS10	ABS	Tape and reel	4000pcs / reel	EIA STD RS-481

**Revision history**

Date	Revision	Changes
23-May-2020	1.0	Initial release

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