



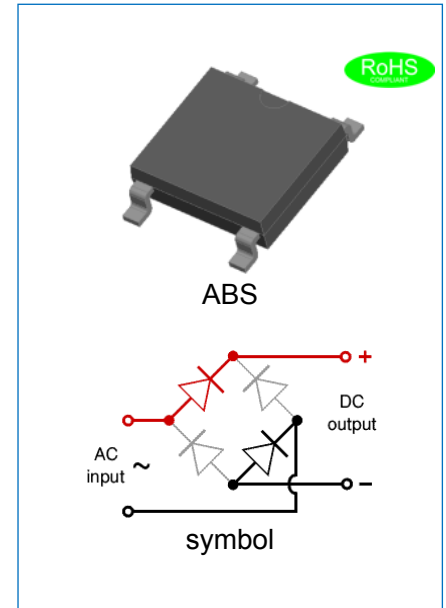
ABS2~ABS10

GLASS PASSIVATED BRIDGE RECTIFIERS

Rev.4.1

DESCRIPTION:

- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ Glass passivated chip junction
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives
- ✧ Ideal for automatic placement
- ✧ High surge forward current capability
- ✧ Lead tin plated copper
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, etc.



MECHANICAL DATA

- ✧ Case: ABS molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Symbol marking on body
- ✧ Weight: 0.098gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

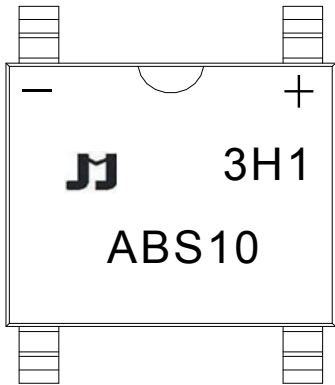
(Rating at 25°C ambient temperature unless otherwise specified.)

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
Average rectified output current at $T_L=100^\circ\text{C}$	I_O	1.0					A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	35					A
Maximum forward voltage per diode @ $I_F=1.0\text{A}$	V_F	1.1					V
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	5					μA
		500					μA
Typical junction capacitance $V_R=4.0\text{V}$, $f=1\text{MHz}$	C_J	9					pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

THERMAL RESISTANCES

Symbol	Parameter	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
R _{th(j-c)}	Junction to case	23					°C/W

MARKING



ABS	Package: ABS
10	V _{RRM} :1000V

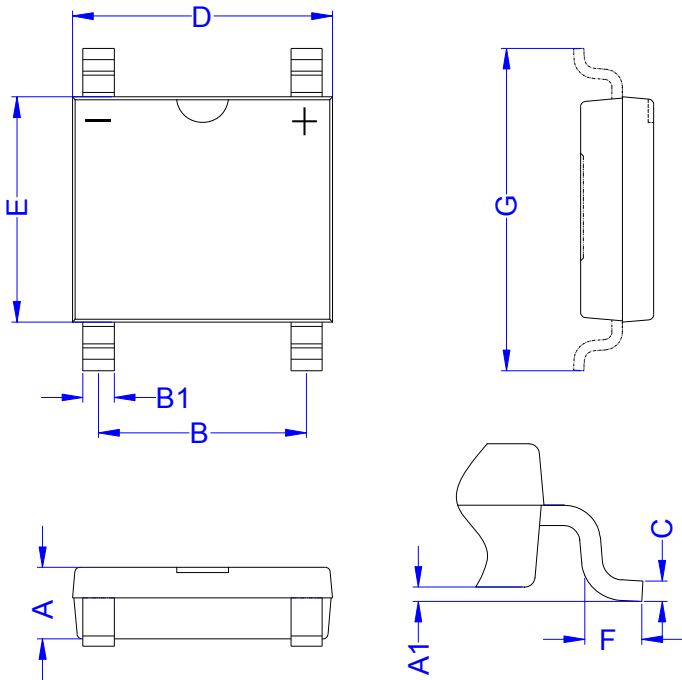
xH1: Month, 1、2、3 ~ 9、A、B、C

3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number

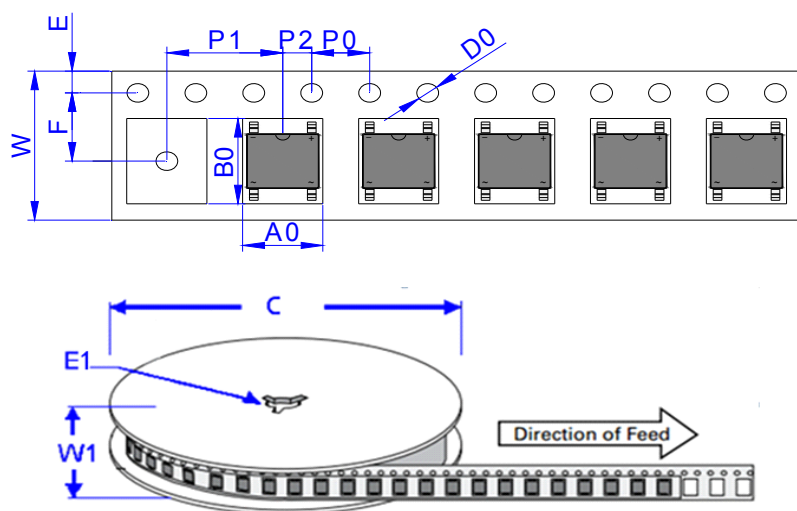
PACKAGE MECHANICAL DATA



ABS

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.30	1.50	0.051	0.059
A1		0.20		0.008
B	3.90	4.10	0.154	0.161
B1	0.50	0.80	0.020	0.031
C	0.15	0.35	0.006	0.014
D	4.90	5.10	0.193	0.201
E	4.30	4.50	0.169	0.177
F	0.30	0.80	0.012	0.031
G	6.20	6.80	0.244	0.268

TAPE AND REEL SPECIFICATION-ABS



Ref.	Dimensions	
	Millimeters	Inches
A0	5.31± 0.30	0.209 ± 0.012
B0	6.68 ± 0.30	0.263± 0.012
C	330.0	13.0
D0	1.55 ± 0.10	0.061± 0.004
E	1.75 ± 0.20	0.069 ± 0.008
E1	13.3± 0.3	0.524 ± 0.012
F	5.50 ± 0.20	0.217 ± 0.008
P0	4.00 ± 0.20	0.157 ± 0.008
P1	8.00 ± 0.20	0.315± 0.008
P2	2.00 ± 0.20	0.079 ± 0.008
W	12.00± 0.20	0.472 ± 0.008
W1	15.7± 2.0	0.618 ± 0.079

PACKAGE INFORMATION-ABS

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)
TAPING	0.098	3,000	48,000

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics(25°C)

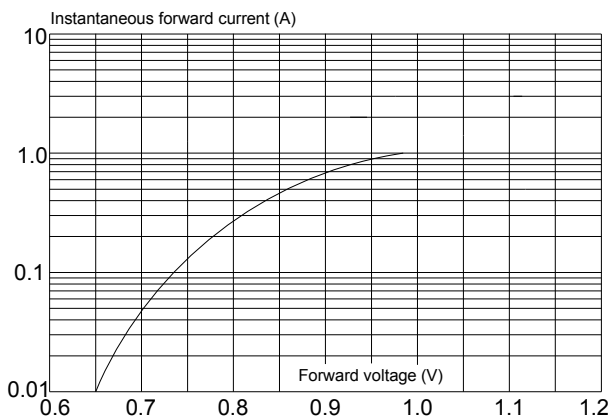


FIG.2: Typical reverse characteristics

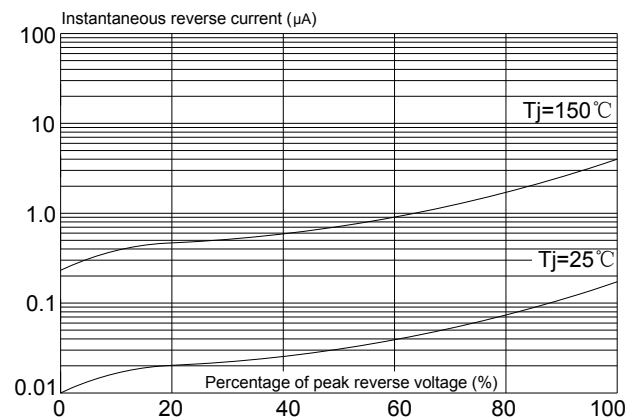


FIG.3: Maximum non-repetitive peak forward surge current

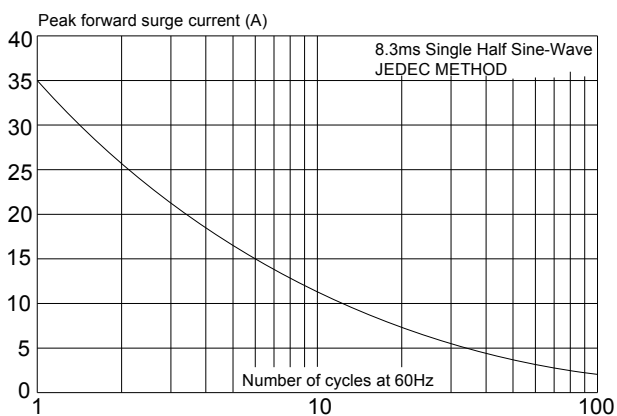
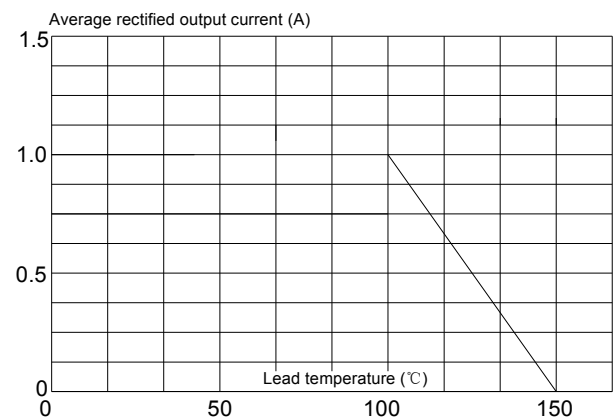


FIG.4: Average rectified output current derating curve



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