



MB2F~MB10F

GLASS PASSIVATED BRIDGE RECTIFIERS

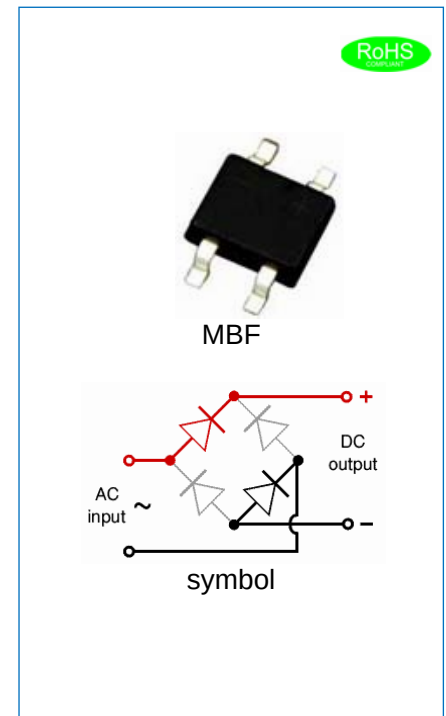
Rev.5.0

DESCRIPTION

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

MECHANICAL DATA

- ✧ Case: MBF molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Polarity symbol marking on body.
- ✧ Weight: 0.075gram



ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

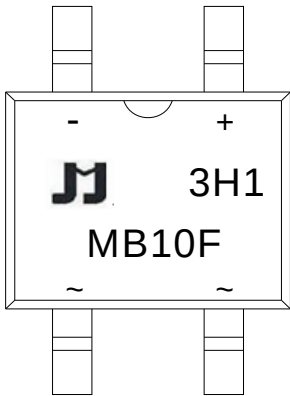
Parameter		Symbol	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	200	400	600	800	1000	V
Average rectified output current at $T_A=40$		I_O	1.0					A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	35					A
Maximum forward voltage per diode @ $I_F=1.0A$		V_F	1.1					V
Maximum DC reverse current at rated DC blocking voltage per diode	$T_J=25$	I_R	5					μA
	$T_J=125$		500					μA
Typical junction capacitance $V_R=4.0V$, $f=1MHz$		C_J	10					pF
Operating junction and storage temperature range		T_J, T_{STG}	-55 to +150					

THERMAL RESISTANCES

Symbol	Parameter	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
$R_{th(j-a)}$	Junction to ambient (note1)	93					/W
$R_{th(j-l)}$	Junction to lead	32					/W

Note1 Thermal resistance from junction to ambient mounted on P.C.B. with 4.0 mm x 4.0 mm copper pad areas.

MARKING



MB	MB Series
10	V_{RRM} :1000V
F	Package: MBF

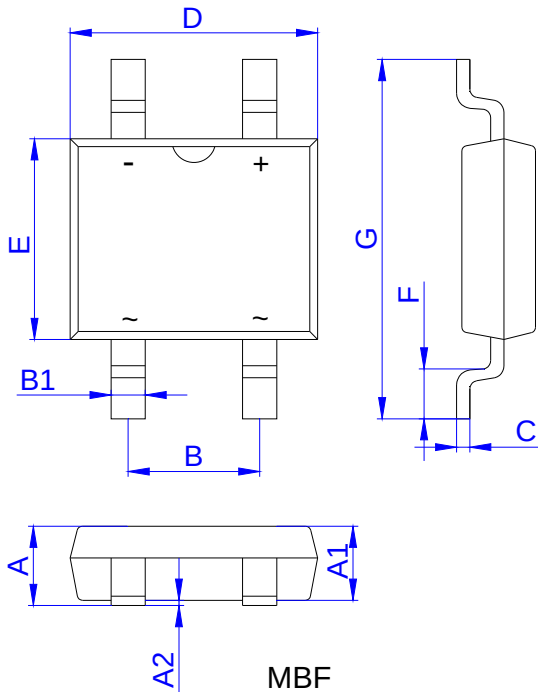
$xH1$ Month 1 2 3 9 A B C

$3x1$

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	...

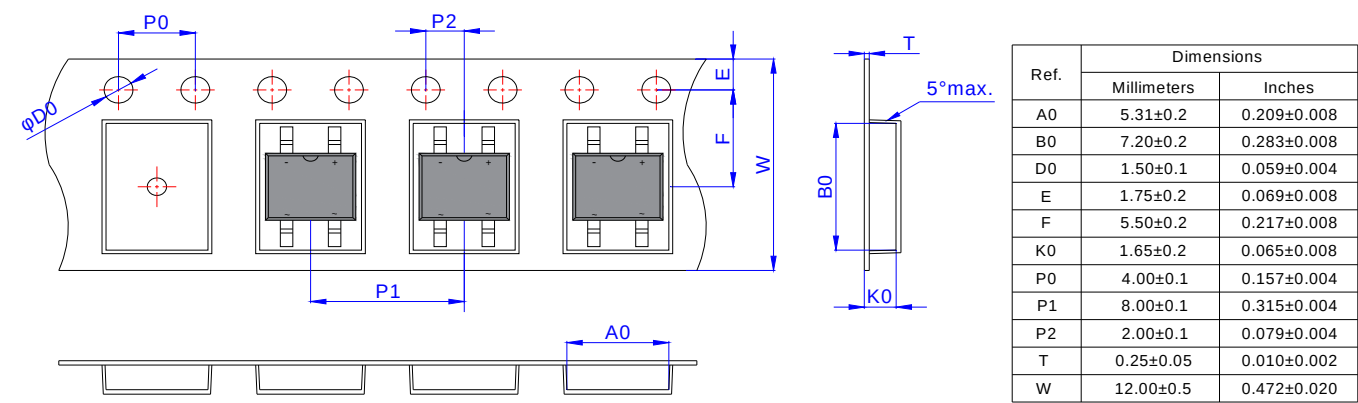
$3Hx$ Batch number

PACKAGE MECHANICAL DATA



Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.30	1.60	0.051	0.063
A1	1.20	1.50	0.047	0.059
A2		0.20		0.008
B	2.30	2.70	0.091	0.106
B1	0.45	0.75	0.018	0.030
C	0.15	0.35	0.006	0.014
D	4.60	5.00	0.181	0.197
E	3.60	4.00	0.142	0.157
F	0.70	1.10	0.028	0.043
G	6.40	7.00	0.252	0.276

TAPE SPECIFICATION-MBF



PACKAGE INFORMATION-MBF

PART No.	REEL (PCS)	PER CARTON (PCS)	DESCRIPTION
MB2F~MB10F	5,000	80,000	13 inch reel pack

CHARACTERITICS CURVE

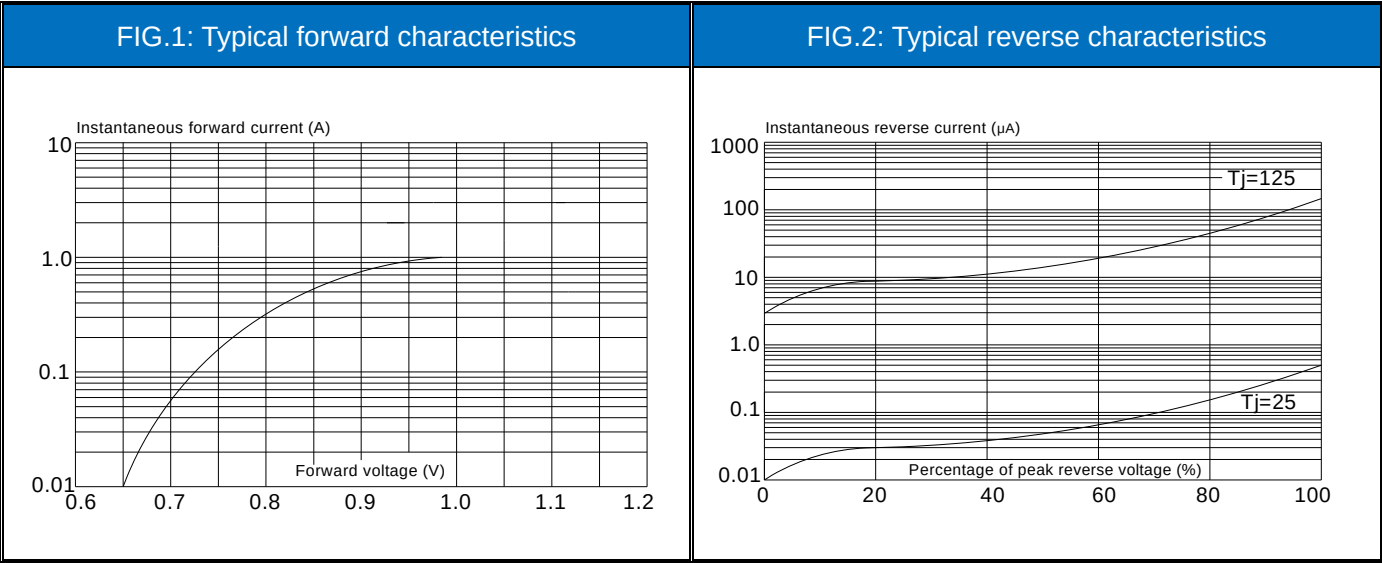


FIG.3: Maximum non-repetitive peak forward surge current

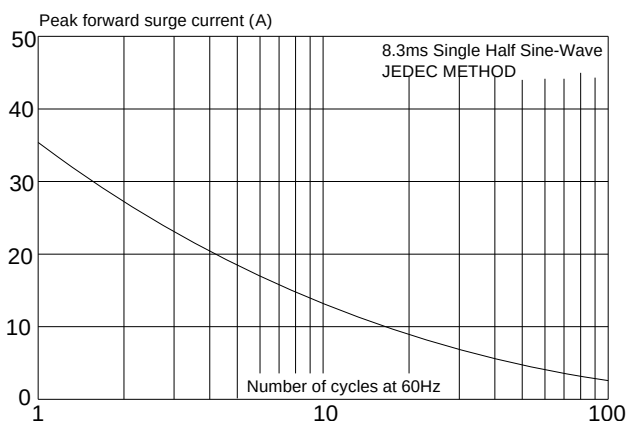
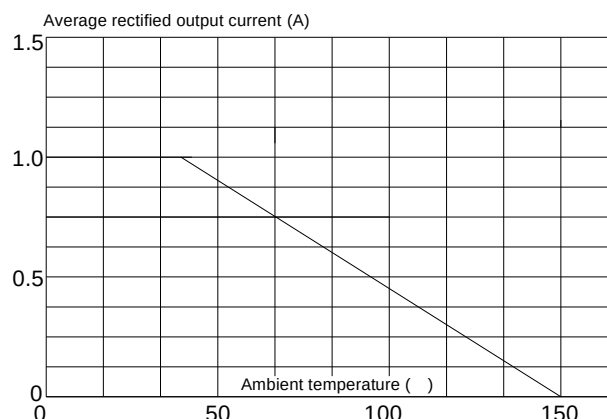


FIG.4: Average rectified output current derating curve



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