MB1M~MB10M

Rev.D May.-2017

蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

0.8A MBM

0.8A DIP Glass Passivated Bridge Rectifier, MBM package.

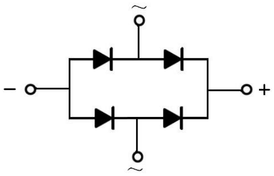
/ Features

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current：0.8 A, High Surge Current Capability.

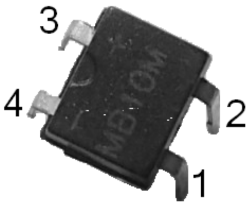
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

/ Marking

See Marking Instructions.

Parameter	Symbol	Rating						Unit
		MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Currentat T_a = 50℃	I_o	0.8						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30						A
Typical Junction Capacitance（Note1）	C_j	13						pF
Typical Thermal Resistance[Note2]	$R_{\theta JA}$	95						/W
Typical Thermal Resistance[Note2]	$R_{\theta JL}$	30						/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150						

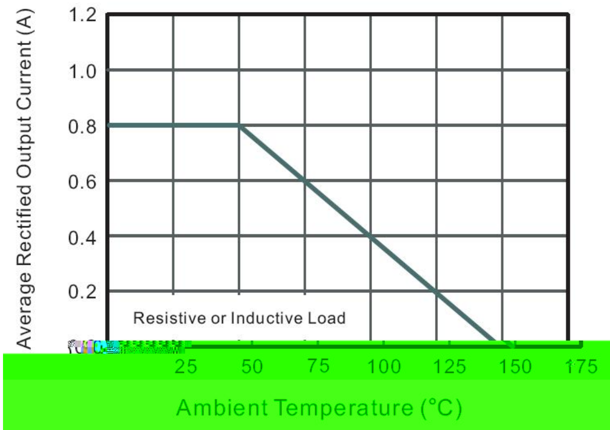
Note:

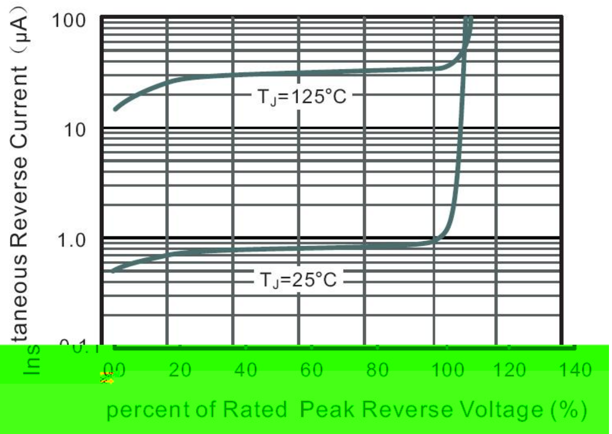
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×(5×5mm^2） copper pad..

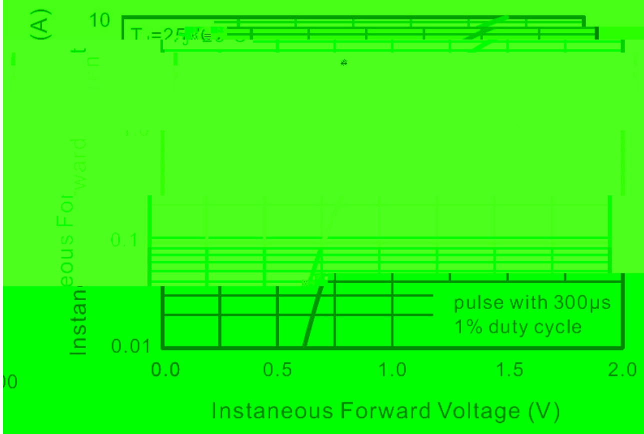
Parameter	Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	I_F=0.4A	1.0	V
		I_F=0.8A	1.1	

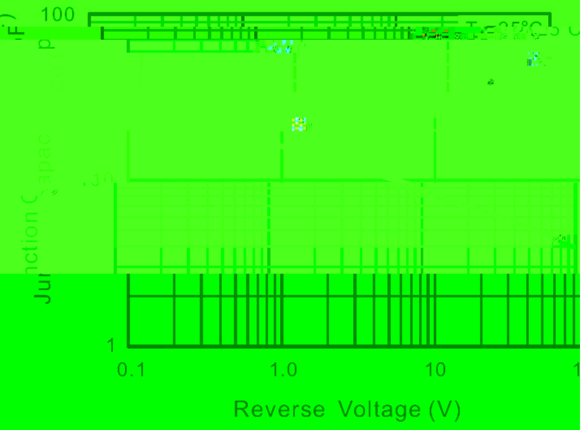
Maximum DC
Reverse Current at
Maximum DC

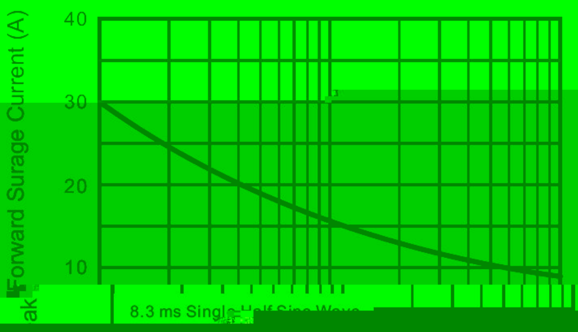
/ Electrical Characteristic Curve



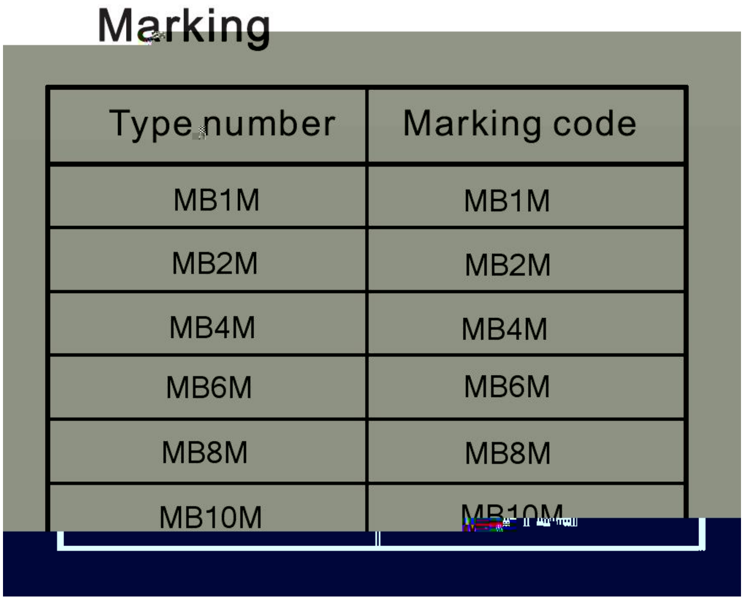








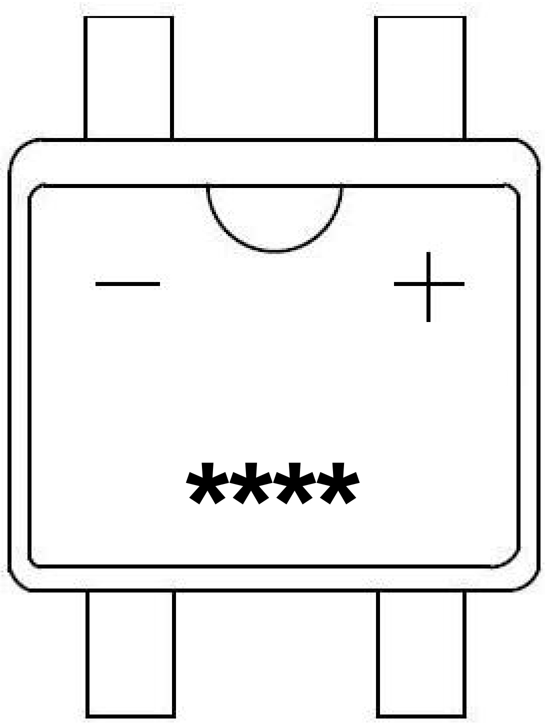
/ Marking Instructions



Marking

Type number	Marking code
MB1M	MB1M
MB2M	MB2M
MB4M	MB4M
MB6M	MB6M
MB8M	MB8M
MB10M	MB10M

/ Marking Instructions



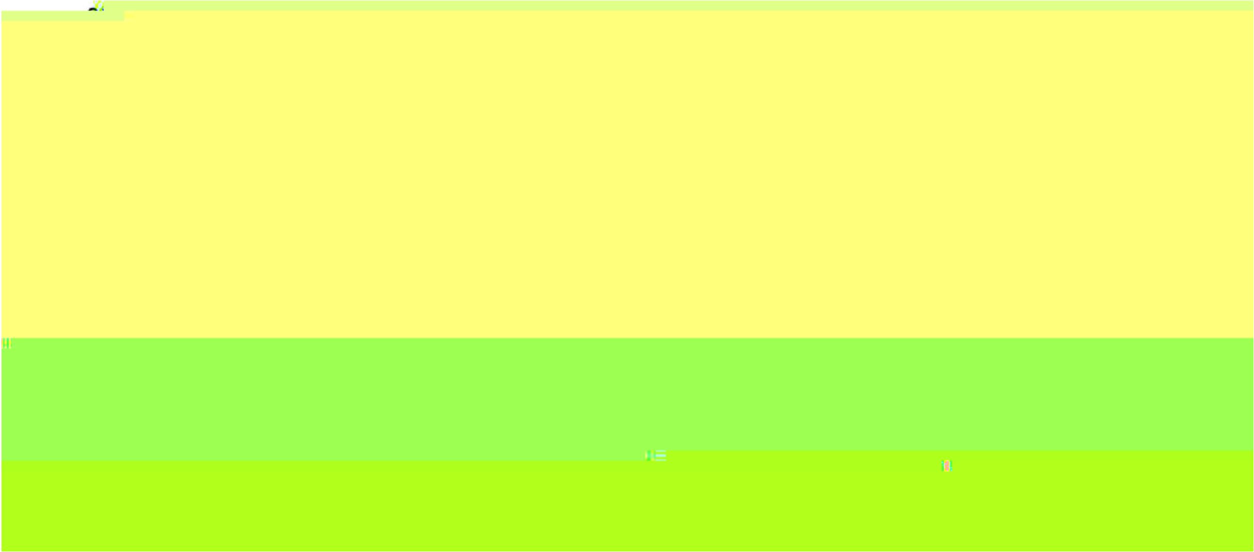
MB1M

**** 1 * 3 *

Note:

MB1M	Product Type Code
****	Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code

( ) / Temperature Profile for Dip Soldering(Pb-Free)



1 25 150 60 90sec;
2 255 5 5 0.5sec;
3 2 10 /sec.

Note:
1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:255 5 , Duration:5 0.5sec.
3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec.

Temp.:270 5 Time:10 1 sec

/ Packaging SPEC.

/ TUBE

Package Type	Units					Dimension (unit mm^3)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
MBM	100	50	5000	4	20000			

/ Notices