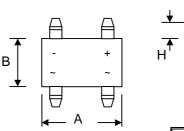
# G□ 深圳市蓝光明科技有限公司 ₩B05S – MB10S <sup>®</sup> ≦

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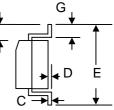
#### 0.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material UL Flammability 94V-O



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Dim

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MB-S

Max

4.95

4.10

0.35

0.20

7.00

1.10

1.70

2.70

2.70

3.00

Min

4.50

3.60

0.15

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6.40

0.50

1.30

2.30

2.30

All Dimensions in mm

#### **Mechanical Data**

- Case: MB-S, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.22 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbo	MB05S	MB1S	MB2S	MB4S	MB6S	MB10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	700	V
Average Rectified Output Current (Note 1) $@T_A = 40^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo	0.5 0.8						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	5.0						A <sup>2</sup> s
Forward Voltage per element $@l_F = 0.5A$	Vfm	1.0						V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	<b>I</b> RM	5.0 500						μA
Typical Junction Capacitance per leg (Note 3)	Cj	13						pF
Typical Thermal Resistance per leg (Note 1)	R ∂ JA R ∂ JL	70 20						°C/W
Operating and Storage Temperature Range	Тј, Tsтg	-55 to +150						°C

Note: 1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

2. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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