

东莞市九呈电子科技有限公司



Lux-Bridge

LX08M

● FEATURES

- * Halogen-free type
- * Glass passivated chip junctions
- * Compliance to RoHS product
- * Leadless chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● APPLICATION

- * Lighting
- * AC/DC Power Supply
- * Communication Equipment

● MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled
Terminals : Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

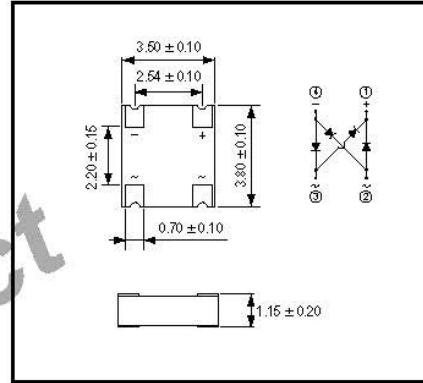
● PACKING

- * 5,000 pieces per 13" (330mm ± 2mm) reel
- * 2 reels per box
- * 5 boxes per carton

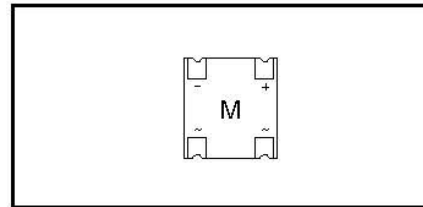
● OUTLINE DIMENSIONS

Case : MBCN

Unit : mm



● MARKING



Absolute Maximum Ratings (Ta = 25 °C)

| ITEM | Symbol | Conditions | Rating | Unit |
|--|-----------------------------------|--|-------------|------|
| Repetitive peak reverse voltage | V _{RRM} | | 1000 | V |
| Average forward output rectified current (Fig.1) | I _{F(AV)} | on glass-epoxy P.C.B. (Note 1) on aluminum substrate (Note 2) | 0.5 0.8 | A |
| Peak forward surge current | I _{FSM} | 8.3ms single half sine-wave | 30 | A |
| Operating junction and storage temperature Range | T _J , T _{STG} | | -55 to +150 | °C |

Electrical characteristics (Ta = 25 °C)

| ITEM | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|------------------------------------|---------------------|---|------|-----------|----------|------------------|
| Forward voltage | V _F | I _F = 0.4A | - | 0.90 | 1.0 | V |
| Repetitive peak reverse current | I _{RRM} | V _R = Max. V _{RRM} Ta = 25 °C Ta = 125 °C | -- | 0.08 - | 5 100 | μA |
| Current squared time | I ² t | t < 8.3ms, Ta = 25 °C | - | 3.74 | - | A ² s |
| Typical thermal resistance per leg | R _{th(JA)} | Junction to ambient (Note 1) | - | 130 | - | °C/W |
| | R _{th(JC)} | Junction to case (Note 1) | - | 40 | - | °C/W |

NOTES: (1) On glass epoxy P.C.B. mounted on 0.05" x 0.05" (1.3 x 1.3 mm) solder pads.
 (2) On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20 mm) mounted on 0.05" x 0.05" (1.3 x 1.3 mm) solder pads.
 (3) Preliminary specification.

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FIG.1 - FORWARD CURRENT DERATING CURVE

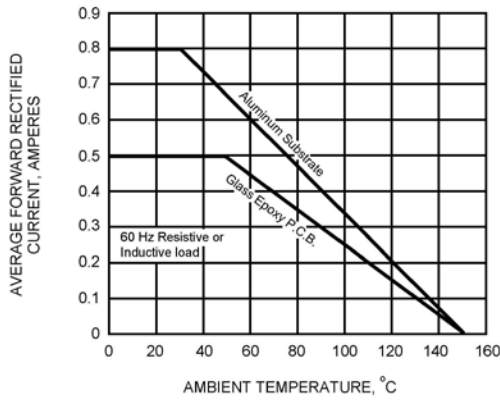


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

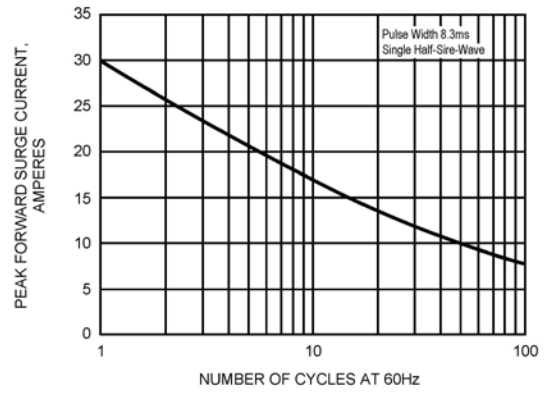


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

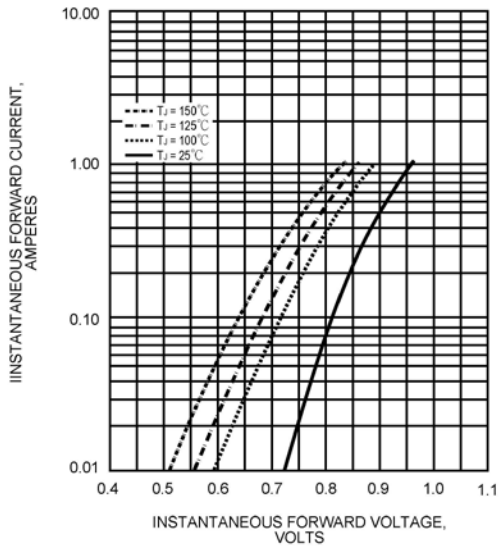


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

