

Z4RGP20MH

● **FEATURES**

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

● **APPLICATION**

- * AC/DC Power Supply
- * Communication Equipment

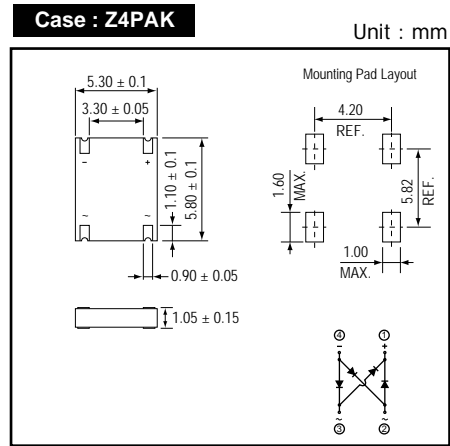
● **MECHANICAL DATA**

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

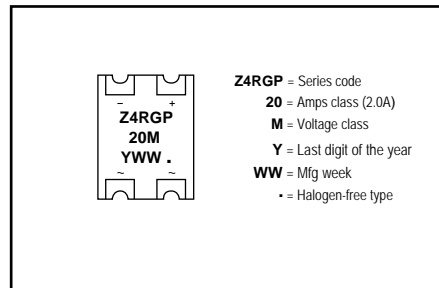
● **PACKING**

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

● **OUTLINE DIMENSIONS**



● **MARKING**



Absolute Maximum Ratings (Ta = 25 °C)

| ITEM | Symbol | Conditions | Rating | Unit |
|--|-----------------------------------|---|-------------|------|
| Repetitive peak reverse voltage | V _{RRM} | | 1000 | V |
| Average forward current | I _{F(AV)} | | 2.0 | A |
| Peak forward surge current | I _{FSM} | 8.3ms single half sine-wave | 56 | A |
| Reverse recovery time | T _{rr} | I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A | 500 | nS |
| Operating junction and storage temperature Range | T _j , T _{STG} | | -65 to +175 | °C |

Electrical characteristics (Ta = 25 °C)

| ITEM | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---------------------------------|---------------------|----------------------------|------|------|------|------------------|
| Forward voltage | V _F | @ I _F = 1.0A | - | 0.98 | - | V |
| | | @ I _F = 2.0A | - | 1.05 | 1.25 | |
| Repetitive peak reverse current | I _{RRM} | Ta = 25 °C | - | 0.1 | 5 | uA |
| | | Ta = 125 °C | - | 4 | - | |
| Current squared time | I ² t | t < 8.3ms, Ta = 25 °C | - | 13 | - | A ² s |
| Thermal resistance | R _{th(JA)} | Junction to ambient (NOTE) | - | 125 | - | °C/W |
| | R _{th(JC)} | Junction to case (NOTE) | - | 45 | - | |

NOTES : (1) Thermal resistance, measured on PC board with recommended land areas.
 (2) Preliminary specification.

FIG.1 - FORWARD CURRENT DERATING CURVE

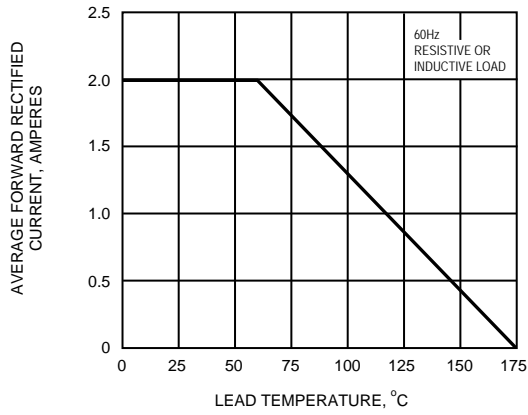


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

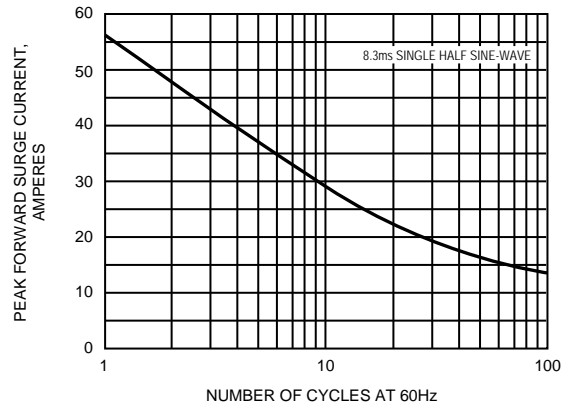


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

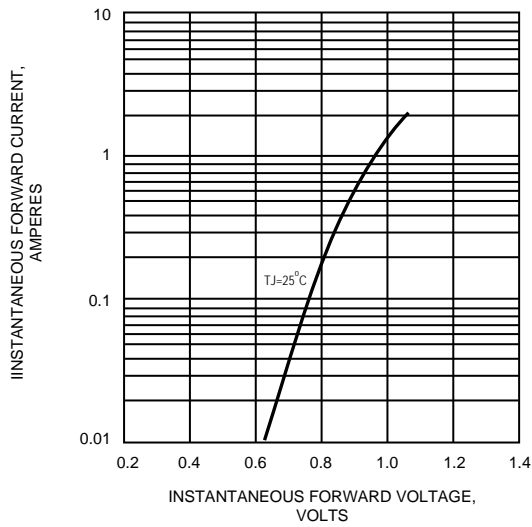


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

