

Z2APK56H

● **FEATURES**

- * Halogen-free type
- * Lead free product, compliance to RoHS
- * Lead less chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability, low VF
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Patented ZPAK™ Package Technology

● **APPLICATION**

- * Switching mode power supply applications
- * Portable equipment battery applications
- * High frequency rectification
- * DC / DC Converter
- * Telecommunication

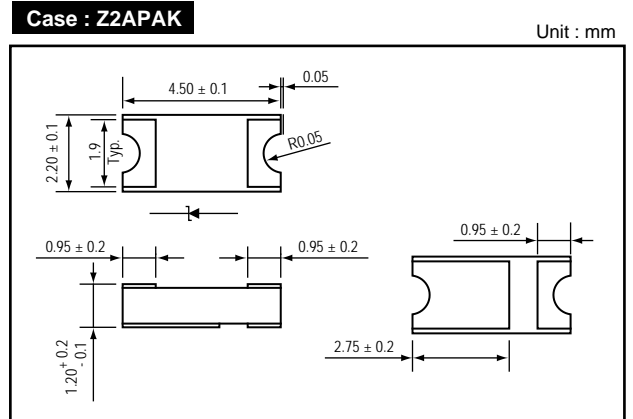
● **MECHANICAL DATA**

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

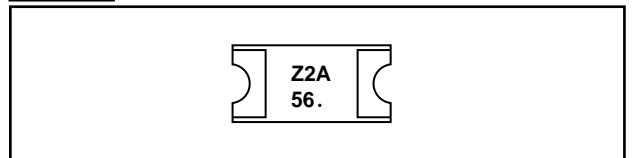
● **PACKING**

- * 3,000 pieces per 7" (178mm ± 2mm) reel
- * 4 reels per box
- * 6 boxes per carton

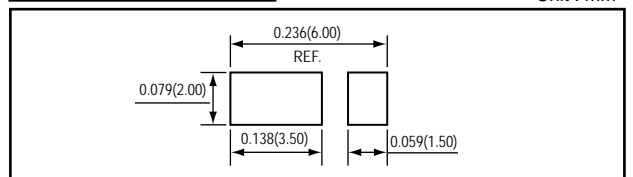
● **OUTLINE DIMENSIONS**



● **MARKING**



● **MOUNTING PAD LAYOUT**



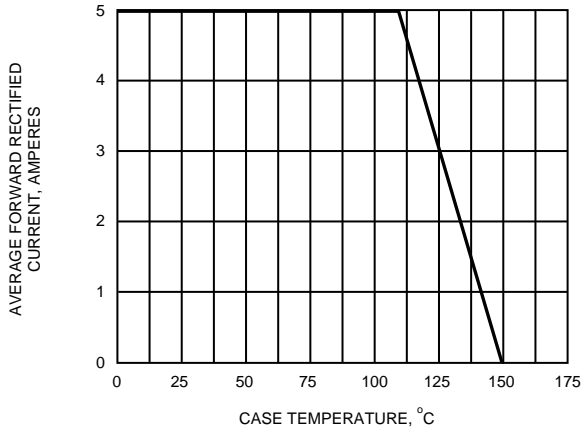
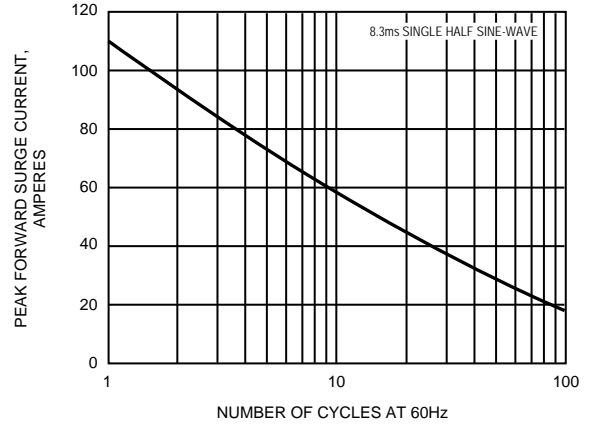
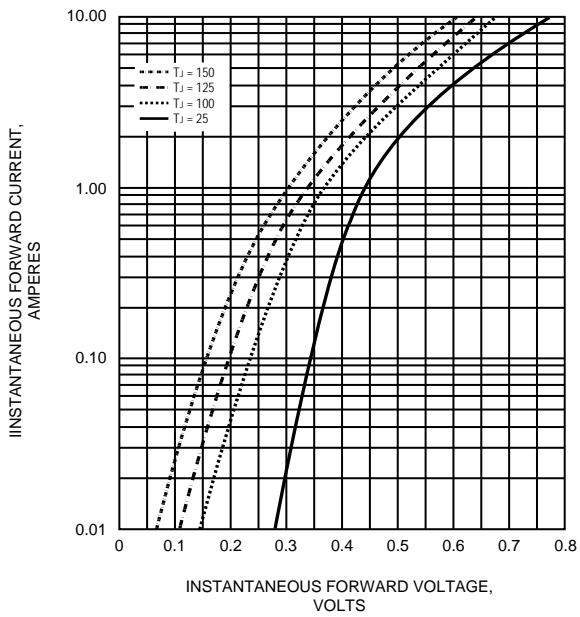
Absolute Maximum Ratings (Ta = 25 °C)

| ITEM | Symbol | Conditions | Rating | Unit |
|--------------------------------------|--------|-----------------------------|-------------|------|
| | | | Z2APK56H | |
| Repetitive peak reverse voltage | VRRM | | 60 | V |
| Average forward current | IF(AV) | | 5 | A |
| Peak forward surge current | IFSM | 8.3ms single half sine-wave | 110 | A |
| Operating junction temperature Range | Tj | | -55 to +150 | °C |
| Storage temperature Range | TSTG | | -55 to +150 | °C |

Electrical characteristics (Ta = 25 °C)

| ITEM | Symbol | Conditions | Min. | Typ. | Max. | Unit | |
|---------------------------------|---------|------------------------------|-------------|------|------|------|----|
| Forward voltage (NOTE 1) | VF | IF = 5A | - | 0.63 | 0.69 | V | |
| Repetitive peak reverse current | IRRM | VR = Max. VRRM | Ta = 25 °C | - | 0.01 | 0.10 | mA |
| | | | Ta = 125 °C | - | - | 15 | |
| Thermal resistance | Rth(JA) | Junction to ambient (NOTE 2) | - | 126 | - | °C/W | |
| | Rth(JC) | Junction to case (NOTE 2) | - | 10 | - | °C/W | |

NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.
 (2) Mounted on P.C.B. with 2.0 x 2.0mm copper pad areas.

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
