

Z3PK10200H

● **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
- * Designed as bypass diodes for solar panels

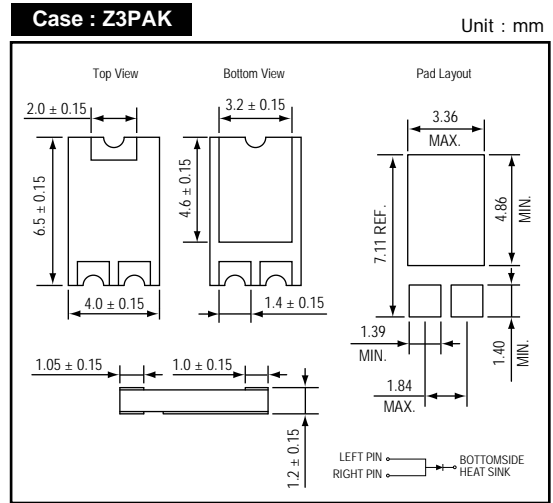
● **MECHANICAL DATA**

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

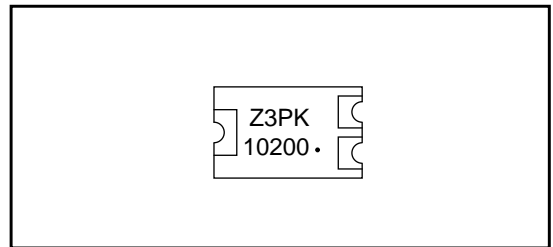
● **PACKING**

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

● **OUTLINE DIMENSIONS**



● **MARKING**



Absolute Maximum Ratings (Ta = 25 °C)

| ITEM | Symbol | Conditions | Rating | Unit |
|--------------------------------------|--------|-----------------------------|-------------|------|
| | | | Z3PK10200H | |
| Repetitive peak reverse voltage | VRRM | | 200 | V |
| Average forward current | IF(AV) | | 10 | A |
| Peak forward surge current | IFSM | 8.3ms single half sine-wave | 170 | 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 = 10A | - | 0.84 | 0.90 | V | |
| Repetitive peak reverse current | IRRM | VR = Max. VRRM | Ta = 25 °C | - | 0.01 | 0.10 | mA |
| | | | Ta = 125 °C | - | - | 50 | |
| Thermal resistance | Rth(JA) | Junction to ambient (NOTE 2) | - | 60 | - | °C/W | |
| | Rth(JL) | Junction to lead (NOTE 2) | - | 22 | - | °C/W | |
| | Rth(JC) | Junction to case (NOTE 2) | - | 20 | - | °C/W | |

NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.
 (2) Mounted on P.C.B. with 14 x 14mm copper pad areas.
 (3) Preliminary specification.

FIG.1 - FORWARD CURRENT DERATING CURVE

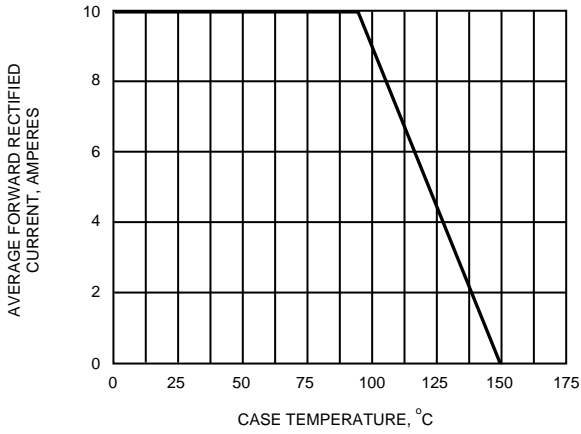


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

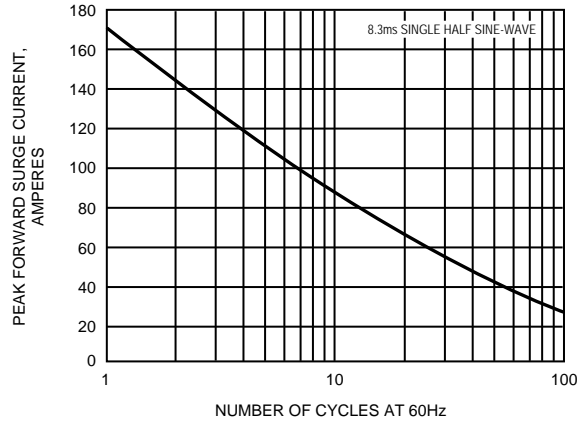


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

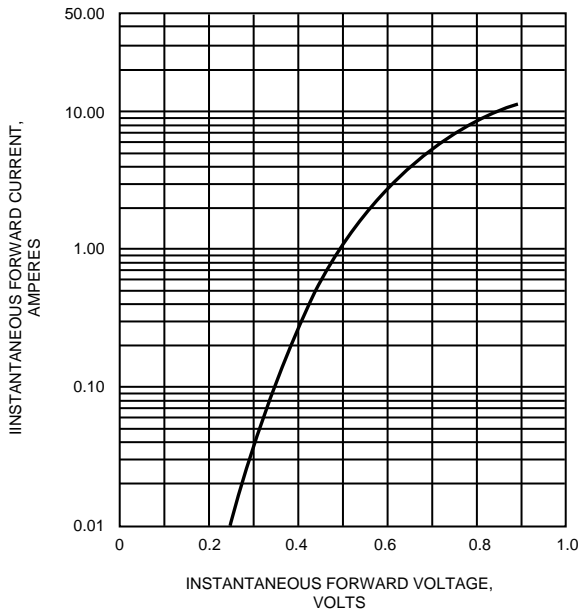


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

