



**CHENMKO ENTERPRISE CO.,LTD**

**MINIATURE PLASTIC SILICON RECTIFIER**

VOLTAGE RANGE 50 - 1000 Volts CURRENT 2.0 Amperes

**GP200PT  
THRU  
GP210PT**

Lead free devices

**FEATURES**

- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

**MECHANICAL DATA**

**Case:** JEDEC DO-15 molded plastic

**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

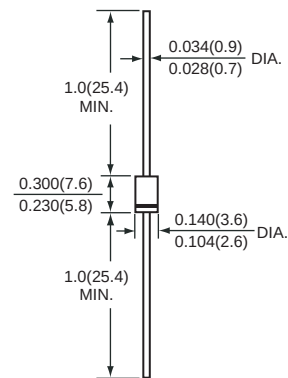
**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.4 gram



**DO-15**



Dimensions in inches and (millimeters)

**DO-15**

**MAXIMUM RATINGS** ( At TA = 25°C unless otherwise noted )

| RATINGS                                                                                              | SYMBOL   | GP200PT     | GP201PT | GP202PT | GP204PT | GP206PT | GP208PT | GP210PT | UNITS  |
|------------------------------------------------------------------------------------------------------|----------|-------------|---------|---------|---------|---------|---------|---------|--------|
| Maximum Recurrent Peak Reverse Voltage                                                               | VRRM     | 50          | 100     | 200     | 400     | 600     | 800     | 1000    | Volts  |
| Maximum RMS Voltage                                                                                  | VRMS     | 35          | 70      | 140     | 280     | 420     | 560     | 700     | Volts  |
| Maximum DC Blocking Voltage                                                                          | VDC      | 50          | 100     | 200     | 400     | 600     | 800     | 1000    | Volts  |
| Maximum Average Forward Rectified Current<br>0.375" (9.5mm) lead length at TA = 50°C                 | IO       | 2.0         |         |         |         |         |         |         | Amps   |
| Peak Forward Surge Current 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | IFSM     | 70          |         |         |         |         |         |         | Amps   |
| Typical Junction Capacitance ( Note )                                                                | CJ       | 40          |         |         |         |         |         |         | pF     |
| Typical Thermal Resistance                                                                           | R θJA    | 40          |         |         |         |         |         |         | °C / W |
| Operating and Storage Temperature Range                                                              | TJ, TSTG | -65 to +175 |         |         |         |         |         |         | °C     |

**ELECTRICAL CHARACTERISTICS** ( At TA = 25°C unless otherwise noted )

| CHARACTERISTICS                                                                                  | SYMBOL | GP200PT | GP201PT | GP202PT | GP204PT | GP206PT | GP208PT | GP210PT | UNITS |
|--------------------------------------------------------------------------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Instantaneous Forward Voltage at 2.0 A DC                                                | VF     | 1.0     |         |         |         |         |         |         | Volts |
| Maximum Reverse Current at rated<br>DC blocking Voltage per leg                                  | IR     | 5.0     |         |         |         |         |         |         | uAmps |
| @ TA = 25°C                                                                                      |        |         |         |         |         |         |         |         |       |
| @ TA = 100°C                                                                                     |        | 50      |         |         |         |         |         |         | uAmps |
| Maximum Full Load Reverse Current Average, Full Cycle<br>0.375" (9.5mm) lead length at TL = 75°C |        | 30      |         |         |         |         |         |         | uAmps |

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

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RATING CHARACTERISTIC CURVES ( GP200PT THRU GP210PT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

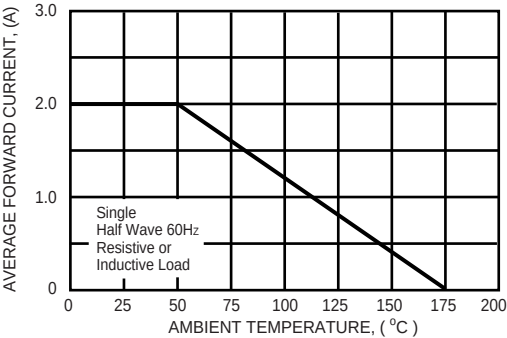


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

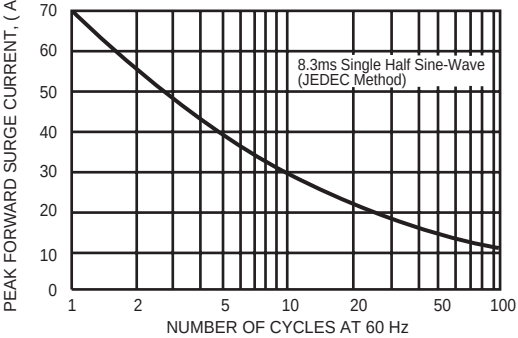


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

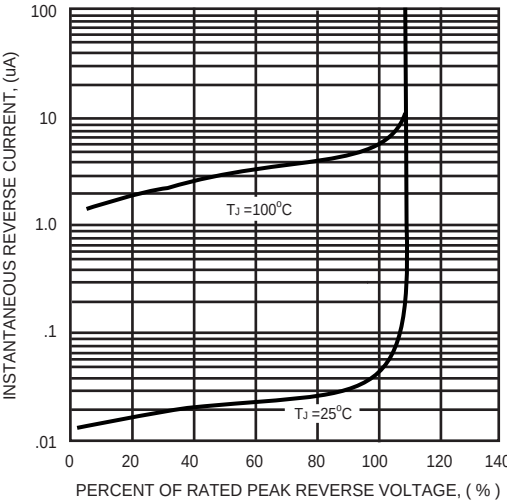


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

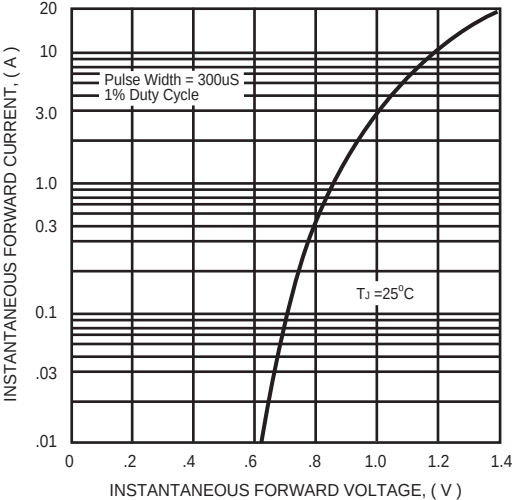


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

