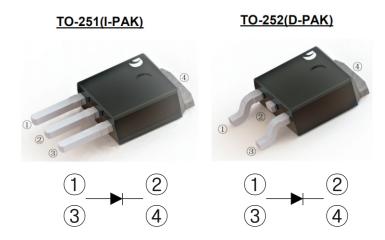
GLASS PASSIVATED RECTIFIERS Reverse Voltage - 100 to 1000 V

Forward Current - 4.0 A

FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- · High temperature soldering guaranteed
- Mounting position: any

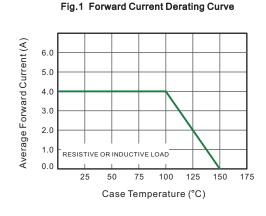


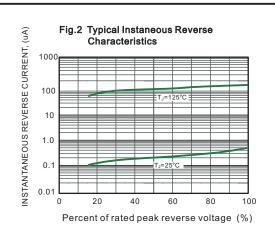
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

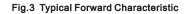
| CHARACTERISTICS | TO-251 | G401VS | G402VS | G404VS | G406VS | G408VS | G410VS | Units | | | | |
|--|----------------------------------|----------------------|--------|--------|--------|--------|--------|-------|--|--|--|--|
| CHARACTERISTICS | TO-252 | G401DS | G402DS | G404DS | G406DS | G408DS | G410DS | | | | | |
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | V | | | | |
| Maximum RMS voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | V | | | | |
| Maximum DC Blocking Voltage | V _{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | V | | | | |
| Maximum Average Forward Rectified Current | I _{F(AV)} | 4.0 | | | | | | | | | | |
| Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | I _{FSM} 140 | | | | | | | | | | |
| Max Instantaneous Forward Voltage at 4 A DC | V _F | 1.1 | | | | | | | | | | |
| Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 125^{\circ}$ C | I _R | I _R 5 500 | | | | | | | | | | |
| Typical Junction Capacitance (1) | 0 | | | | | | | | | | | |
| Typical Thermal Resistance (2) | sistance (2) R _{BJC} 25 | | | | | | | | | | | |
| Operating Junction Temperature Range | Tj | -55 ~ +150 | | | | | | | | | | |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | | | | | | | | | | |

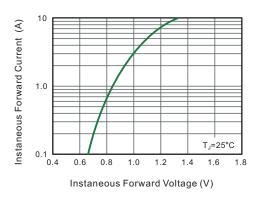
^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

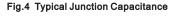
⁽²⁾ P.C.B. mounted with 10cmX10cmX1mm copper pad areas.











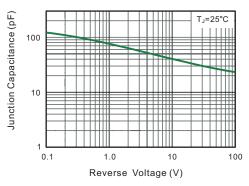


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

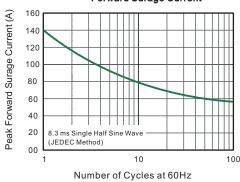
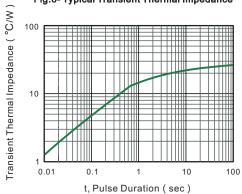
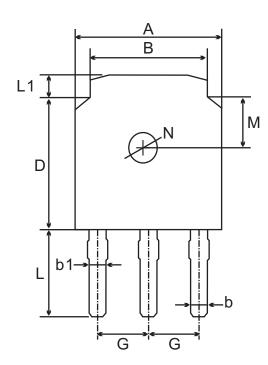
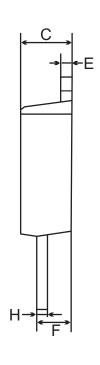


Fig.6- Typical Transient Thermal Impedance



TO-251(I-PAK) Package Outline Dimensions





TO-251(I-PAK) mechanical data

| UN | NIT. | Α | В | b | b1 | С | D | E | F | G | Н | L | L1 | М | N |
|-----|------|-----|-----|-----|------|-----|-----|-----|-----|---------|------|-----|-----|---------|----------------|
| mm | max | 6.7 | 5.5 | 0.8 | 0.9 | 2.5 | 6.3 | 0.6 | 1.8 | 2.29 | 0.55 | 4.3 | 1.2 | 1.8 | 1.3 TYPICAL |
| mm | min | 6.3 | 5.1 | 0.3 | 0.76 | 2.1 | 5.9 | 0.4 | 1.3 | TYPICAL | 0.45 | 3.9 | 0.8 | TYPICAL | |
| mil | max | 264 | 217 | 31 | 35 | 98 | 248 | 24 | 71 | 90 | 22 | 169 | 47 | 71 | 51 |
| mil | min | 248 | 201 | 12 | 30 | 83 | 232 | 16 | 51 | TYPICAL | 18 | 154 | 31 | TYPICAL | TYPICAL |

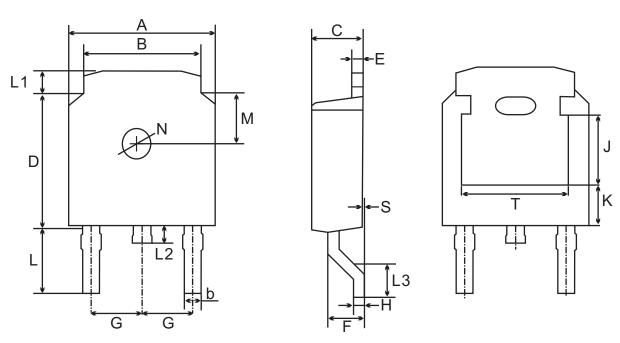
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TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

| UN | TIV | Α | В | b | С | D | Е | F | G | Н | L | L1 | L2 | L3 | S | М | N | J | K | Т |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|-----|-----|-----|------|-----|---------|---------|--------------|------|------|
| | max | 6.7 | 5.5 | 0.8 | 2.5 | 6.3 | 0.6 | 1.8 | 2.29 | 0.55 | 3.1 | 1.2 | 1.0 | 1.75 | 0.1 | 1.0 | | 3.16 ref. | | 4.83 |
| mm | min | 6.3 | 5.1 | 0.3 | 2.1 | 5.9 | 0.4 | 1.3 | TYPICAL | 0.45 | 2.7 | 0.8 | 0.6 | 1.40 | 0.0 | | | | | ref. |
| | max | 264 | 217 | 31 | 98 | 248 | 24 | 71 | 90 | 22 | 122 | 47 | 39 | 69 | 4 | 71 | 51 | 124 | 71 | 190 |
| mil | min | 248 | 201 | 12 | 83 | 232 | 16 | 51 | TYPICAL | 18 | 106 | 31 | 24 | 55 | 0 | TYPICAL | TYPICAL | ref. | ref. | ref. |

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