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TICP106 SERIES SILICON CONTROLLED RECTIFIERS

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- 2 A Continuous On-State Current Sol COM
- 15 A Surge-Current
- Glass Passivated Wafer
- 400 V to 600 V Off-State Voltage
- Max I_{GT} of 200 μA
- Package Options

| PACKAGE | PACKING | PART # SUFFIX | | |
|---------------------|---------------|---------------|--|--|
| LP | Bulk | (None) | | |
| LP with fomed leads | Tape and Reel | R | | |

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MDC1AB

absolute maximum ratings over operating case temperature (unless otherwise noted)

| RATING | | | VALUE | UNIT |
|--|----------|---------------------|-------------|------|
| Repetitive peak off-state voltage (see Note 1) | TICP106D | V | 400 | V |
| Repetitive peak off-state voltage (see Note 1) | TICP106M | V _{DRM} | 600 | v |
| Repetitive peak reverse voltage | TICP106D | V | 400 | V |
| Repentive peak reverse voltage | TICP106M | V _{RRM} | 600 | |
| Continuous on-state current at (or below) 85°C case temperature (see Note 2) | | I _{T(RMS)} | 2 | А |
| Surge on-state current (see Note 3) | | I _{TSM} | 15 | A |
| Peak positive gate current (pulse width \leq 300 µs) | | | 0.2 | A |
| Average gate power dissipation (see Note 4) | | P _{G(AV)} | 0.3 | W |
| Operating case temperature range | | T _C | -40 to +110 | °C |
| Storage temperature range | | T _{stg} | -40 to +125 | °C |
| Lead temperature 3.2 mm from case for 10 seconds | | TL | 230 | °C |

NOTES: 1. These values apply when the gate-cathode resistance $R_{GK} = 1 \text{ k}\Omega$.

2. These values apply for continuous dc operation with resistive load. Above 85°C derate linearly to zero at 110°C.

3. This value applies for one 50 Hz half-sine-wave when the device is operating at (or below) the rated value of peak reverse voltage and on-state current. Surge may be repeated after the device has returned to original thermal equilibrium.

4. This value applies for a maximum averaging time of 20 ms.



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with the terms of Power Innovations standard warranty. Production processing does not



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electrical characteristics at 25°C case temperature (unless otherwise noted)

| | PARAMETER | | TEST CONDITIC | DNS | MIN | TYP | MAX | UNIT |
|------------------|--------------------------------------|---------------------------|--|-----------------------------------|-----|-----|-----|------|
| I _{DRM} | Repetitive peak off-state current | V_{D} = rated V_{DRM} | R_{GK} = 1 k Ω | | | | 20 | μA |
| I _{RRM} | Repetitive peak reverse current | V_R = rated V_{RRM} | $I_{G} = 0$ | | | | 200 | μΑ |
| I _{GT} | Gate trigger current | V _{AA} = 6 V | R _L = 100 Ω | t _{p(g)} ≥ 20 μs | | 60 | 200 | μΑ |
| V_{GT} | Gate trigger voltage | V _{AA} = 6 V | R _L = 100 Ω R _{GK} = 1 kΩ | $t_{p(g)} \ge 20 \ \mu s$ | 0.4 | | 1 | V |
| Ι _Η | Holding current | V _{AA} = 6 V | R _{GK} = 1 kΩ | Initiating I _T = 10 mA | | | 5 | mA |
| V_{TM} | Peak on-state voltage | I _{TM} = 1 A | (see Note 5) | | | | 1.5 | V |

NOTE 5: This parameter must be measured using pulse techniques, t_p = 1 ms, duty cycle ≤ 2 %. Voltage sensing-contacts, separate from the current carrying contacts, are located within 3.2 mm from the device body.

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MECHANICAL DATA

LP003 (TO-92)

3-pin cylindical plastic package

This single-in-line package consists of a circuit mounted on a lead frame and encapsulated within a plastic compound. The compound will withstand soldering temperature with no deformation, and circuit performance characteristics will remain stable when operated in high humidity conditions. Leads require no additional cleaning or processing when used in soldered assembly.



NOTE A: Lead dimensions are not controlled in this area.





PRODUCT INFORMATION

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LPR tape dimensions



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