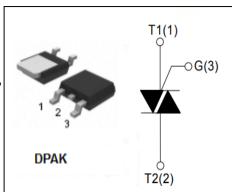


isc Triacs L6004D5

## **FEATURES**

- With TO-252 non insulated package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL               | PARAMETER                                     |        | MIN     | UNIT                 |
|----------------------|---|--------|---------|----------------------|
| $V_{DRM}$            | Repetitive peak off-state voltage             |        | 600     | V                    |
| $V_{RRM}$            | Repetitive peak off-state voltage             |        | 600     | V                    |
| I <sub>T(RMS)</sub>  | RMS on-state current (full sine wave) Tc=95°C |        | 4       | Α                    |
| I <sub>TSM</sub>     | Non-repetitive peak on-state current          | f=50Hz | 33      | Α                    |
|                      |   | f=60Hz | 40      |                      |
| T <sub>j</sub>       | Operating junction temperature                |        | -40~110 | $^{\circ}\mathbb{C}$ |
| T <sub>stg</sub>     | Storage temperature                           |        | -40~125 | $^{\circ}\mathbb{C}$ |
| R <sub>th(j-c)</sub> | Thermal resistance, junction to case          |        | 3.6     | °C/W                 |
| R <sub>th(j-a)</sub> | Thermal resistance, junction to ambient       |        | 50      | °C/W                 |

## ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise specified)

| SYMBOL           | PARAMETER                         | CONDITIONS   | MAX       | UNIT |
|------------------|-----------------------------------|--|-----------|------|
| I <sub>RRM</sub> | Repetitive peak reverse current   | $V_R=V_{RRM}$ , $V_R=V_{RRM}$ , Tj=110 $^{\circ}$ C          | 10<br>200 | uA   |
| I <sub>DRM</sub> | Repetitive peak off-state current | $V_D = V_{DRM}$ , $V_D = V_{DRM}$ , $T_J = 110$ $^{\circ}$ C | 10<br>200 | uA   |
| I <sub>GT</sub>  | Gate trigger current ( I —IV)     | $V_D=12V; R_L=60\Omega$                                      | 5         | mA   |
| I <sub>H</sub>   | Holding current                   | I <sub>GT</sub> = 100mA, Gate Open                           | 10        | mA   |
| $V_{GT}$         | Gate trigger voltage all quadrant | $V_D=12V; R_L=60\Omega$                                      | 2         | V    |
| $V_{TM}$         | On-state voltage                  | $I_T = 4A$ ; $t_p = 380 \mu s$                               | 1.6       | V    |



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