



Part: Q2008L4  
Series: Teccor® Triac Devices  
Technology:Triacs

| PARAMETERS                                                                     |                              |                                                                                      |
|--------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|
| Package Type                                                                   | Pkg Type                     | Radial Leaded                                                                        |
| Mount Method                                                                   | Mount                        | Through Hole                                                                         |
| Critical Rate-of-rise of On-state Current                                      | $di/dt$ (A/ $\mu$ s)         | 70                                                                                   |
| Critical rate-of-rise of off-state voltage                                     | $dv/dt$ @ 100°C (V/ $\mu$ s) | 250                                                                                  |
| Critical rate-of-rise of off-state voltage                                     | $dv/dt$ @ 125°C (V/ $\mu$ s) | 150                                                                                  |
| Critical Rate-of-rise of Commutation Voltage of a Triac (commutating $dv/dt$ ) | $dv/dt(c)$ TYP (V/ $\mu$ s)  | 4                                                                                    |
| Repetitive Peak off-state Current                                              | $I_{DRM}$ @ 100°C max (mA)   | 0.5000                                                                               |
| Repetitive Peak off-state Current                                              | $I_{DRM}$ @ 110°C MAX (mA)   | 0.0000                                                                               |
| Repetitive Peak off-state Current                                              | $I_{DRM}$ @ 125°C max (mA)   | 2.0000                                                                               |
| Repetitive Peak off-state Current                                              | $I_{DRM}$ @ 25°C max (mA)    | 0.0500                                                                               |
| Gate Trigger Current - Q4                                                      | $I_{GT}$ Q4 TYP (mA)         | 50                                                                                   |
| Peak gate trigger current                                                      | $I_{GTM}$ (A)                | 1.8000                                                                               |
| RMS Surge (Non-repetitive) On-state Fusing Current                             | $I^2t$ (A <sup>2</sup> Sec)  | 41.0000                                                                              |
| Average Gate Power Dissipation                                                 | $P_{G(AV)}$ (Watts)          | 0.5000                                                                               |
| Peak Gate Power Dissipation                                                    | $P_{GM}$ (Watts)             | 20                                                                                   |
| Package Size / Form Factor                                                     | Size                         | TO-220                                                                               |
| Gate-controlled Turn-on time                                                   | $T_{GT}$ TYP ( $\mu$ s)      | 3.0000                                                                               |
| Maximum Gate Trigger Voltage                                                   | $V_{GT}$ MAX @ 125°C (V)     | 0.2000                                                                               |
| Gate Trigger Voltage                                                           | $V_{GT}$ MAX @ 25°C (V)      | 2.5000                                                                               |
| Peak on-state voltage a maximum rated RMS current                              | $V_{TM}$ (V)                 | 1.6000                                                                               |
| Maximum On-state Current                                                       | $I_{T(RMS)}$ MAX (A)         | 8                                                                                    |
| Repetitive Peak Off-state Voltage                                              | $V_{DRM}$ MIN (V)            | 200                                                                                  |
| Gate Trigger Current - Q1                                                      | $I_{GT}$ Q1 MAX (mA)         | 25                                                                                   |
| Gate Trigger Current - Q2                                                      | $I_{GT}$ Q2 MAX (mA)         | 25                                                                                   |
| Gate Trigger Current - Q3                                                      | $I_{GT}$ Q3 MAX (mA)         | 25                                                                                   |
| Gate Trigger Current - Q4                                                      | $I_{GT}$ Q4 MAX (mA)         | 0                                                                                    |
| Maximum Holding Current                                                        | $I_H$ MAX (mA)               | 50                                                                                   |
| Surge (Non-repetitive) On-state current                                        | $I_{TSM}$ @ 60Hz (A)         | 100                                                                                  |
| Surge (Non-repetitive) On-state current                                        | $I_{TSM}$ @ 50Hz (A)         | 83                                                                                   |
| Certifications                                                                 | Cert                         |  |

