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|-----------|-----------|-----------|
| V_{DRM} | V_{RRM} | V_{RSM} |
| 2000V | 2000V | 2100V |

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate

Typical Applications

- DC motor control
- AC motor starters
- Temperature control
- Professional light dimming

| Symbol | Conditions | Values | Units |
|----------------|---|------------|-------------------|
| $I_{T(AV)}$ | | 250 | A |
| $I_{F(AV)}$ | sin. 180; $T_C=85^\circ\text{C}$ | | |
| I_{RMS} | | 566/3×471 | |
| I_{TSM} | $T_{vj}=25^\circ\text{C}$; 10ms | 9000 | A |
| I^2t | $T_{vj}=25^\circ\text{C}$; 8.3...10ms | 405 | KA ² s |
| V_T | $T_{vj}=25^\circ\text{C}$; $I_T=750\text{A}$ | max. 1.4 | V |
| I_{DD} | $T_{vj}=125^\circ\text{C}$; $V_{RD}=V_{RRM}$; $V_{DD}=V_{DRM}$ | max. 85 | mA |
| I_{RD} | | | |
| t_{gd} | $T_{vj}=25^\circ\text{C}$; $I_G=1\text{A}$; $di_G/dt=1\text{A}/\mu\text{s}$; | 1 | μs |
| t_{gr} | $V_D=2/3V_{DRM}$ | 2 | |
| $(di/dt)_{cr}$ | $T_{vj}=125^\circ\text{C}$ | max. 250 | A/ μs |
| $(dv/dt)_{cr}$ | $T_{vj}=125^\circ\text{C}$ | max. 1000 | V/ μs |
| t_q | $T_{vj}=125^\circ\text{C}$ | 50...150 | μs |
| I_H | $T_{vj}=25^\circ\text{C}$; typ. /max. | 150/500 | mA |
| I_L | $T_{vj}=25^\circ\text{C}$; $R_G=33\Omega$; typ. /max. | 300/2000 | mA |
| V_{GT} | $T_{vj}=25^\circ\text{C}$; d.c. | min. 3 | V |
| I_{GT} | $T_{vj}=25^\circ\text{C}$; d.c. | min. 200 | mA |
| V_{GD} | $T_{vj}=125^\circ\text{C}$; d.c. | max. 0.25 | V |
| I_{GD} | $T_{vj}=125^\circ\text{C}$; d.c. | max. 10 | mA |
| $R_{th(j-c)}$ | per thyristor /per module | 0.14/0.07 | K/W |
| $R_{th(c-s)}$ | per thyristor /per module | 0.04/0.02 | K/W |
| T_{vj} | | -40...+125 | $^\circ\text{C}$ |
| T_{stg} | | -40...+125 | $^\circ\text{C}$ |
| V_{isol} | a.c. 50Hz; r.m.s.; 1s/1min. | 5000/4000 | V |