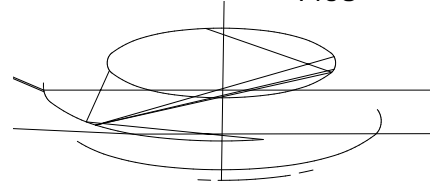



T15C



| Device Type | V_{RRM} (1) | V_{DRM} (1) | V_{RSM} (1) |
|-------------|---------------|---------------|---------------|
| KK3500/18 | 1800 | 1800 | 2000 |
| KK3500/20 | 2000 | 2000 | 2100 |

V_{RRM} = Repetitive peak reverse voltage
 V_{DRM} = Repetitive peak off state voltage
 V_{RSM} = Non repetitive peak reverse voltage (2)

| | | |
|---|-------------------|-------------------|
| Repetitive peak reverse leakage and off state leakage | I_{RRM}/I_{DRM} | 5 mA 80 mA (3) |
| Critical rate of voltage rise | dv/dt (4) | 1000 V/ μ s |

| | | | | | | |
|--------------------------------|-------------|------|-----|--|----|--|
| Peak gate power dissipation | P_{GM} | | 20 | | W | |
| Average gate power dissipation | $P_{G(AV)}$ | | 4 | | W | |
| Gate-trigger current | I_{GT} | | 150 | | mA | $V_D=12V; R_L=3ohms; T_j=+25^{\circ}C$ |
| Gate- trigger voltage | V_{GT} | 0.70 | 2.5 | | V | $V_D=12V; R_L=3ohms; T_j=+25^{\circ}C$ |
| Peak negative voltage | V_{GRM} | | 5 | | V | |

| | | | | | | |
|------------------------------------|----------|--|-----|-----|---|---|
| Delay time | t_d | | 3.0 | 2.5 | s | $I_{TM}=1000A; V_D=67\%V_{DRM}$ Gate pulse: $V_G=30V; R_G=10ohms;$ $t_r=0.1 s; t_p=20 s$ |
| Turn-off time (with $V_R = -5 V$) | t_q | | 40 | | s | $I_{TM} =3500 A; di/dt = - 25 A/ s;$ $V_R =50 V; dv/dt=30V/ s ;$ $V_D= 67\%V_{DRM}; T_j=125^{\circ}C$ |
| Reverse recovery charge | Q_{rr} | | | | C | $I_{TM}=3500 A; di/dt=-10A/ s;$ $V_R=50 V; T_j=125^{\circ}C$ |

| | | | | | | |
|---------------------------------------|-------------|-----|-------|------|---------------|---------------------|
| Operating temperature | T_j | -40 | +125 | | $^{\circ}C$ | |
| Storage temperature | T_{stg} | -40 | +140 | | $^{\circ}C$ | |
| Thermal resistance - junction to case | $R_{(j-c)}$ | | 0.008 | | $^{\circ}C/W$ | Double sided cooled |
| Thermal resistance - case to heatsink | $R_{(c-s)}$ | | 0.002 | | $^{\circ}C/W$ | Double sided cooled |
| Mounting force | F | 55 | 65 | 60 | kN | |
| Weight | m | | | 1.40 | kg | |

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