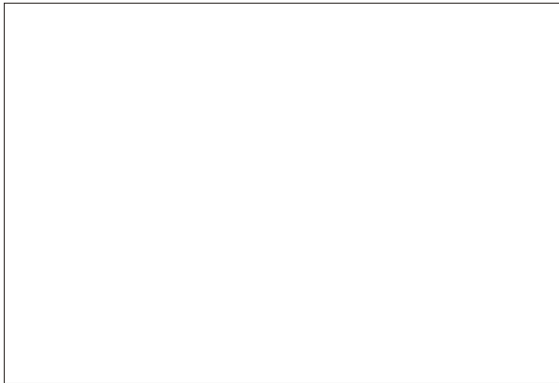


# SMTC1-800F

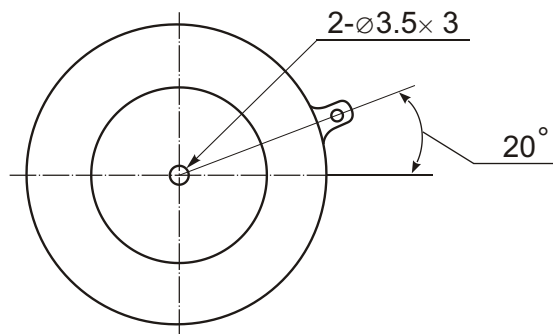


## Fast Turn-off Thyristor

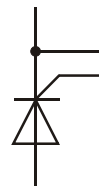
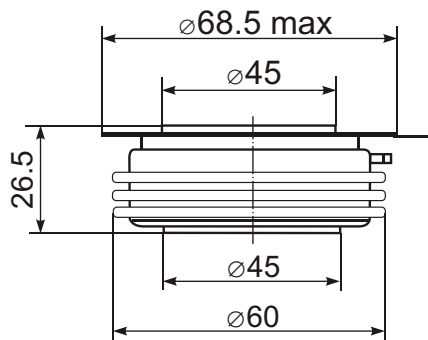


| Type          | $V_{RSM}$ | $V_{RRM}$ ,<br>$V_{DRM}$ |
|---------------|-----------|--------------------------|
| SMTC1-800F-6  | 700       | 600                      |
| SMTC1-800F-8  | 900       | 800                      |
| SMTC1-800F-10 | 1100      | 1000                     |
| SMTC1-800F-12 | 1300      | 1200                     |
| SMTC1-800F-14 | 1500      | 1400                     |
| SMTC1-800F-16 | 1700      | 1600                     |

| Type       | $I_{TAVM}$<br>$T_c=55^\circ\text{C}$ | $I_{TRMS}$ | $I_{TSM}$ | $(di/dt)_{cr}$   | $(dv/dt)_{cr}$   | $V_{TM}$ | $I_{TM}$ | $V_{TO}$ | $r_T$     | $V_{GT}$ | $I_{GT}$ | $T_{VJM}$        | $R_{thJC}$ | F  |
|------------|--------------------------------------|------------|-----------|------------------|------------------|----------|----------|----------|-----------|----------|----------|------------------|------------|----|
|            | A                                    | kA         | kA        | A/ $\mu\text{s}$ | V/ $\mu\text{s}$ | V        | kA       | V        | $m\Omega$ | V        | mA       | $^\circ\text{C}$ | K/W        | kN |
| SMTC1-800F | 800                                  | 1.45       | 10        | 300              | 500-1000         | 2.7      | 2.0      | 1.20     | 0.28      | 3.0      | 250      | 115              | 0.030      | 25 |



| Type               | $t_q$ ( $T_c=105^\circ\text{C}$ )<br>$\mu\text{s}$ |
|--------------------|----------------------------------------------------|
| SMTC1-800F-xx-OED7 | 16                                                 |
| SMTC1-800F-xx-NED7 | 20                                                 |
| SMTC1-800F-xx-MED7 | 25                                                 |
| SMTC1-800F-xx-LED7 | 30                                                 |
| SMTC1-800F-xx-KED7 | 40                                                 |



### Features:

- Hermetic metal case with ceramic insulator
- Capsule packages for double sided cooling
- International standard case
- Amplifying gates

### Typical Applications:

- DC motor control
- AC motor soft starter
- Controlled rectifiers
- AC controllers