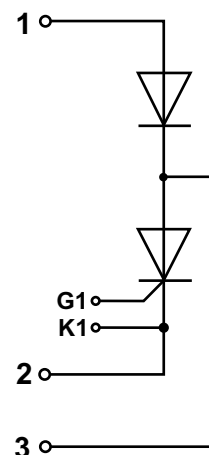
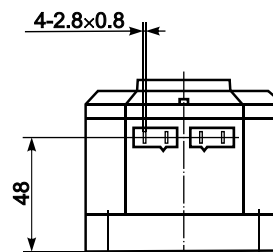
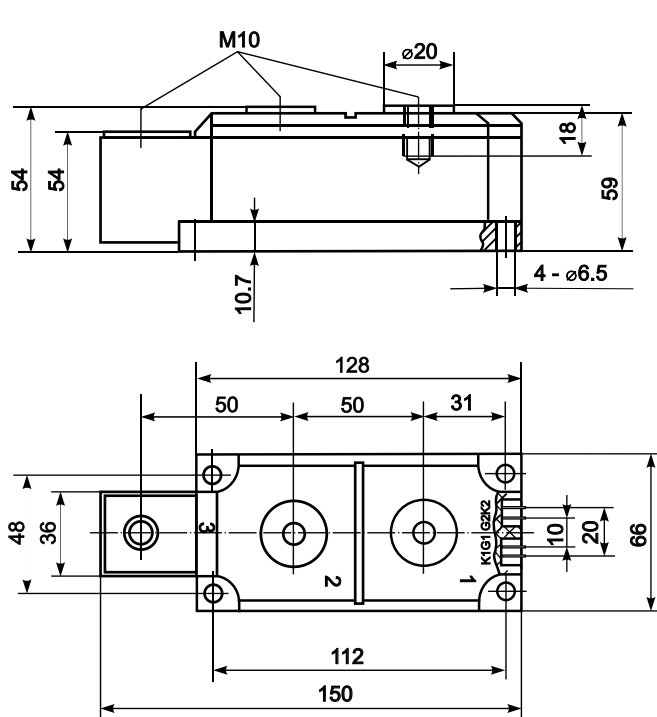


## Thyristor-Diode Module



| Type         | $V_{RSM}$ | $V_{RRM}$ ,<br>$V_{DRM}$ |
|--------------|-----------|--------------------------|
| SMTD-500H-08 | 1000      | 800                      |
| SMTD-500H-12 | 1400      | 1200                     |
| SMTD-500H-14 | 1600      | 1400                     |
| SMTD-500H-16 | 1800      | 1600                     |
| SMTD-500H-18 | 2000      | 1800                     |
| SMTD-500H-20 | 2200      | 2000                     |
| SMTD-500H-22 | 2400      | 2200                     |
| SMTD-500H-24 | 2600      | 2400                     |

| Type      | $I_{TAVM}$ ,<br>$I_{FAVM}$ | $I_{TRMS}$ ,<br>$I_{FRMS}$ | $T_C$ | $I_{TSM}$ ,<br>$I_{FSM}$ | $(di/dt)_{cr}$ | $(dv/dt)_{cr}$ | $V_{TM}$ | $I_{TM}$ ,<br>$I_{FM}$ | $V_{TO}$ | $r_T$ | $t_q$ | $V_{GT}$ | $I_{GT}$ | $T_{VJM}$ | $V_{isol}$ | $R_{thJC}$ |
|-----------|----------------------------|----------------------------|-------|--------------------------|----------------|----------------|----------|------------------------|----------|-------|-------|----------|----------|-----------|------------|------------|
|           | A                          | A                          | °C    | kA                       | A/μs           | V/μs           | V        | kA                     | V        | mΩ    | μs    | V        | mA       | °C        | V          | K/W        |
| SMTD-500H | 500                        | 800                        | 85    | 16.0                     | 100            | 800            | 1.44     | 1.5                    | 0.85     | 0.38  | 350   | 3.0      | 300      | 125       | 2500       | 0.065      |



### Features:

- Industrial standard package
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precise internal pressure contacts for high reliability
- 2500V RMS isolation voltage

### Typical Applications:

- DC motor control
- AC motor soft starter
- Temperature control (e.g. for ovens, chemical processes)
- Lighting control