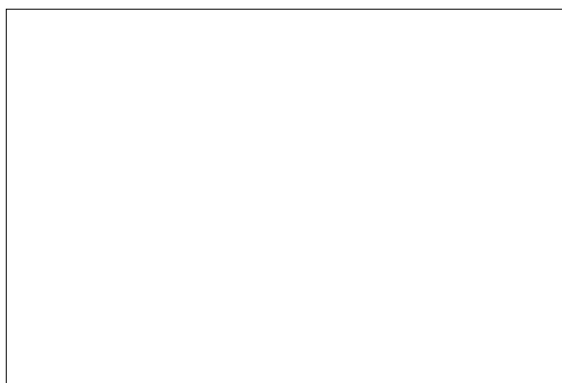


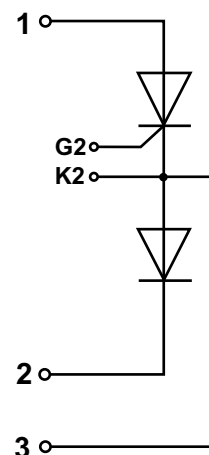
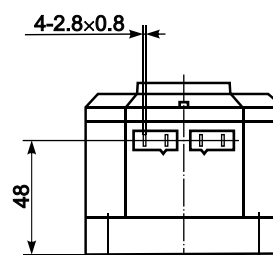
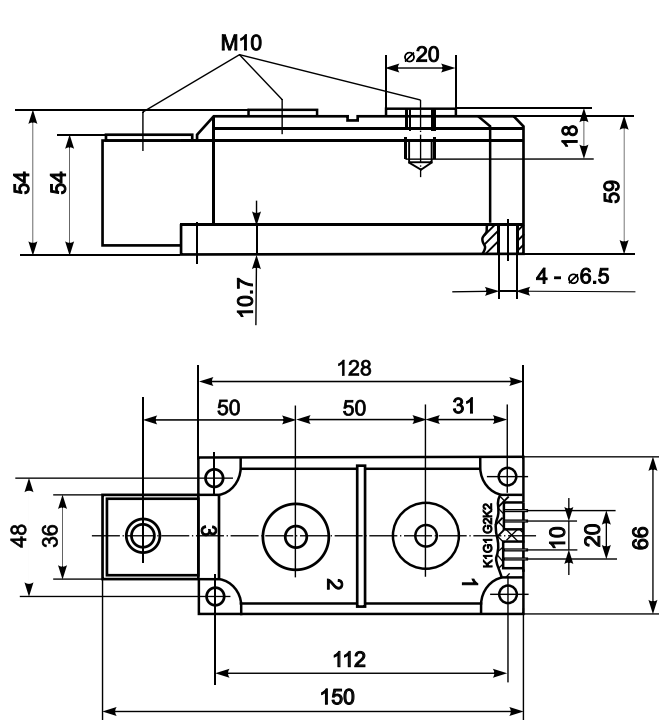
## Diode-Thyristor Module



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| Type         | $V_{RSM}$ | $\frac{V_{RRM}}{V_{DRM}}$ |
|--------------|-----------|---------------------------|
| SMDT-650H-08 | 1000      | 800                       |
| SMDT-650H-12 | 1400      | 1200                      |
| SMDT-650H-14 | 1600      | 1400                      |
| SMDT-650H-16 | 1800      | 1600                      |
| SMDT-650H-18 | 2000      | 1800                      |
| SMDT-650H-20 | 2200      | 2000                      |
| SMDT-650H-22 | 2400      | 2200                      |
| SMDT-650H-24 | 2600      | 2400                      |

| Type      | $\frac{I_{TAVM}}{I_{FAVM}}$ | $\frac{I_{TRMS}}{I_{FRMS}}$ | $T_C$ | $\frac{I_{TSM}}{I_{FSM}}$ | $(di/dt)_{cr}$ | $(dv/dt)_{cr}$ | $V_{TM}$ | $\frac{I_{TM}}{I_{FM}}$ | $V_{TO}$ | $r_T$ | $t_q$ | $V_{GT}$ | $I_{GT}$ | $T_{VJM}$ | $V_{isol}$ | $R_{thJC}$ |
|-----------|-----------------------------|-----------------------------|-------|---------------------------|----------------|----------------|----------|-------------------------|----------|-------|-------|----------|----------|-----------|------------|------------|
|           | A                           | A                           | °C    | kA                        | A/μs           | V/μs           | V        | kA                      | V        | mΩ    | μs    | V        | mA       | °C        | V          | K/W        |
| SMDT-650H | 650                         | 980                         | 85    | 17                        | 100            | 800            | 1.52     | 2.0                     | 0.85     | 0.28  | 350   | 3.0      | 300      | 125       | 2500       | 0.063      |



### 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