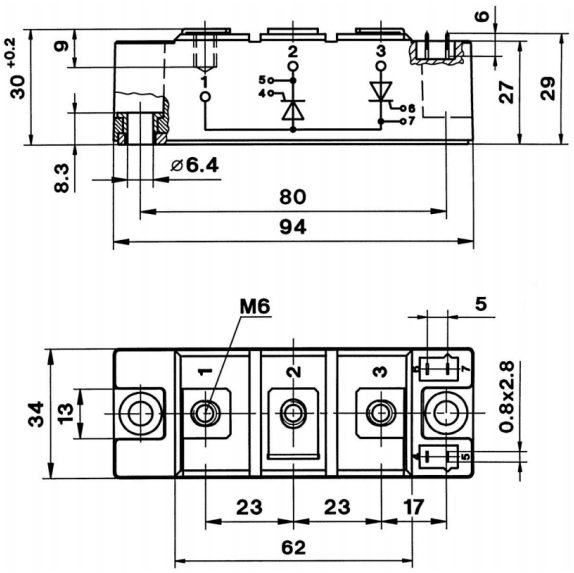
Thyristor Modules

TYPE:SKKT162/18E



V_{DRM}	V_{RRM}	V_{RSM}
1800V	1800V	1900V

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
$I_{T(AV)}$ $I_{F(AV)}$ IT_{RMS}	sin. 180; T_C=85°C	156 250	A
I_{TSM} I^2t	T_{vj}=25°C; 10ms T_{vj}=25°C; 8.3…10ms	5400 145	A KA^2s
V_T I_{DD} I_{RD}	T_{vj}=25°C; I_T=500A T_{vj}=125°C; V_{RD}=V_{RRM}; V_{DD}=V_{DRM}	max. 1.6 max. 40	V mA
t_{gd} t_{gr}	T_{vj}=25°C; I_G=1A; di_G/dt=1A/µs; V_D=2/3V_{DRM}	1 2	µs
$(di/dt)_{cr}$ $(dv/dt)_{cr}$ t_q I_H I_L	T_{vj}=125°C T_{vj}=125°C T_{vj}=125°C T_{vj}=25°C; typ. /max. T_{vj}=25°C; R_G=33Ω; typ. /max.	max. 200 max. 1000 150 150/400 300/1000	A/µs V/µs µs mA mA
V_{GT} I_{GT} V_{GD} I_{GD}	T_{vj}=25°C; d.c. T_{vj}=25°C; d.c. T_{vj}=125°C; d.c. T_{vj}=125°C; d.c.	2 150 max. 0.25 max. 10	V mA V mA
$R_{th(j-c)}$ $R_{th(c-s)}$ T_{vj} T_{stg}	per thyristor /per module per thyristor /per module	0.17/0.085 0.2/0.1 -40…+125 -40…+125	K/W K/W °C °C
V_{isol}	a.c. 50Hz; r.m.s.; 1s/1min.	3600/3000	V