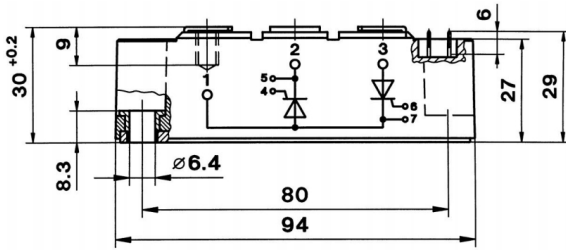
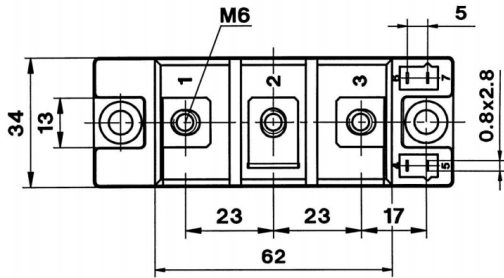


Thyristor Modules TYPE:SKKT162/12E



V_{DRM}	V_{RRM}	V_{RSM}
1200V	1200V	1300V



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