SKKT106

Thyristor MODULE

FEATURES

- Heat transfer through aluminium oxide ceramic isolated metal baseplste
- Hard soldered joints for high reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- DC motor control
- AC motor soft starters
- Temperature control

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Repetitive Peak Reverse Voltage	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	1700	V
TJ	Junction Temperature	-40~130	℃
Tstg	Storage Temperature Range	-40~125	℃
Visol	50Hz, RMS, t=1min	3000	V

SYMBOL	CONDITIONS	VALUE	UNIT
$I_{T(AV)}$	Tc=85℃	106	A
I_{TM}	T_J=25℃, t=10ms	300	A
di/dt	Tvj=130℃	Max.150	A/us
dv/dt	Tvj=130℃	Max.1000	V/us

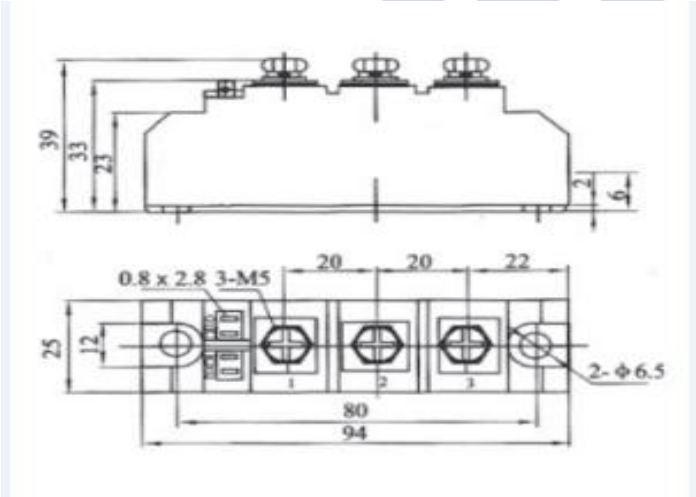
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	Per diode	0.28	K/W
		Per module	0.14	

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_T	Forward Voltage drop	Tvj=25℃, I_T=300A	1.65	V
I_{DD};I_{RD}	Maximum Instantaneous Reverse Current	Tvj=130℃, $V_{RD}=V_{RRM}$;$V_{DD}=V_{DRM}$	20	mA
tq	Maximum Reverse Recovery Time	Tvj=130℃	100	us
V_{GT}	Triggering gate Voltage	Tvj=25℃, d. c	Min.3	V
I_{GT}	Triggering gate Current	Tvj=25℃, d. c	Min.150	mA
V_{GD}	Norri-Triggering Gate Voltage	Tvj=130℃, d. c	0.25	mA
I_{GD}	Norri-Triggering Gate Current	Tvj=130℃, d. c	6	V
I_H	Holding Current	Tvj=25℃, d. c	250	mA

Dimensions in mm (1mm = 0.0394“)



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