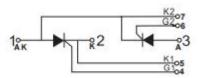


Thyristor Modules

FEATURES

- Long-term stability
- Low Leakage Current
- · Base plate: Copper
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS

		1		
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{RRM} V _{DRM}	Repetitive Peak Reverse Voltage Repetitive Peak Forward Blocking Voltage		1600	V
I _{T(AV)}	Average on-state current	sin. 180; Tc = 85(100)℃	150	А
I _{TSM}	Peak, One-cycle, Non-repetitive Surge Current	Tvj = 25°C; 10ms	5400	- A
		Tvj = 125°C; 10ms	5000	
l ² t	For Fusing	Tvj = 25°C; 8,3 …10ms	1450	- KA ² S
		Tvj = 125°C; 8, 310ms	125	
V _{iso}	isolation voltage	a. c. 50Hz; r.m.s. ; 1s/1min	3600/3000	V~
TJ	Junction Temperature		-40~125	°C
T_{stg}	Storage Temperature Range		-40~125	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	per thyristor / per module	0.17/0.085	K/W

isc website: www.iscsemi.cn isc & iscsemi is registered trademark



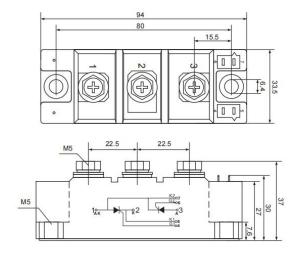
Thyristor Modules

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _T	Forward Voltage Drop	I _{TM} = 500A,T _J = 25 ℃	1.6	V
I _{DRM} IRRM	Peak Reverse and Off-state Leakage Current	V _R = V _{RRM,} T _J = 125 °C	50	mA
I _{GT}	DC gate current required to trigger	- Tvj = 25℃ ; d.c.	150	mA
V _{GT}	DC gate voltage required to trigger		2.0	V
I _H	Holding current	Tvj = 25℃,typ./max	150	mA
ΙL	Latching current	Tvj = 25℃,RG=33Ω	300	mA

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394)



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc website: www.iscsemi.cn

isc & iscsemi is registered trademark