

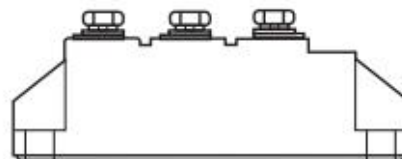
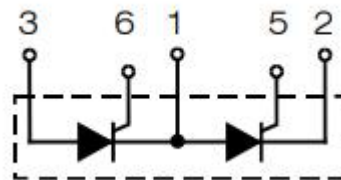
Thyristor Modules

FEATURES

- High frequency operation
- Low forward voltage drop
- Planar passivated chips
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- induction heating
- Motor control



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage		1600	V
V_{DRM}	Repetitive Peak Forward Blocking Voltage		1600	V
$I_{T(AV)}$	Average Forward Current	Sinewave, 180° conduction, $T_c=85^{\circ}\text{C}$	25	A
I_{TSM}	Peak, One-cycle, Non-repetitive Surge Current	8.3 msec (60Hz), sine	700	A
V_{iso}	Isolated Voltage		2500	V
T_J	Junction Temperature		-40~125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range		-40~125	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

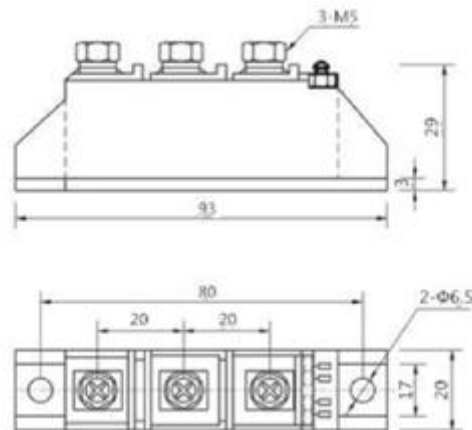
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case, Per Module	0.44	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{TM}	Forward Voltage Drop	$I_{TM} = 80\text{ A}, T_J = 25^{\circ}\text{C}$	2	V
I_{DRM} I_{RRM}	Peak Reverse and Off-state Leakage Current	$V_D = V_{DRM}$ $V_R = V_{RRM}, T_J = 125^{\circ}\text{C}$	5	mA
I_{GT}	DC gate current required to trigger	$V_D = 6\text{ V}, T_J = 25^{\circ}\text{C}$	100	mA
V_{GT}	DC gate voltage required to trigger		1.6	V

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")

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