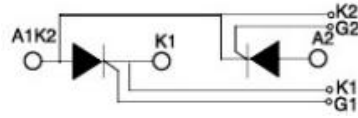


FEATURES

- High frequency operation
- Low forward voltage drop
- Low switching losses at high frequency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Various rectifiers
- AC/DC motor drives
- Heater controls



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage		1200	V
V_{DRM}	Repetitive Peak Forward Blocking Voltage		1200	V
$I_{T(AV)}$	Average Forward Current	Half wave, 180° conduction	130	A
$I_{T(RMS)}$	RMS on-state current	Half wave, 180° conduction	205	A
I_{TSM}	Peak, one-cycle, non-repetitive surge current	1/2 cycle, 50Hz, 180° conduction	3200	A
T_J	Junction Temperature		-40~125	°C
T_{stg}	Storage Temperature Range		-40~125	°C

THERMAL CHARACTERISTICS

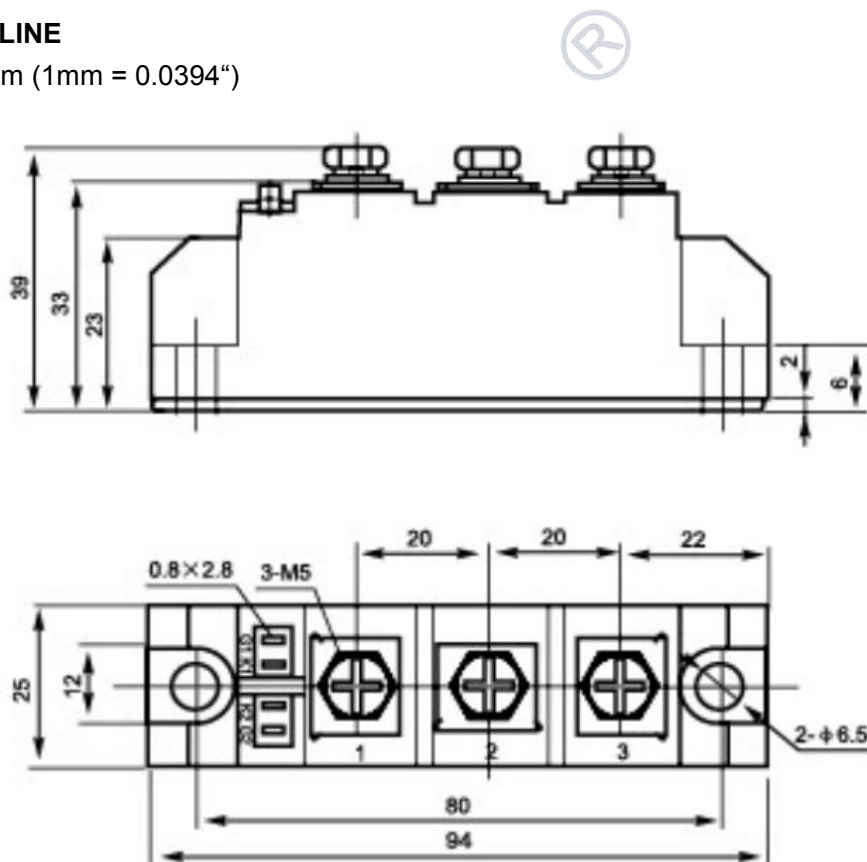
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.2	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYPE	MAX	UNIT
V_{TM}	Forward Voltage Drop	$I_{TM} = 390A$		1.6	V
I_{DRM} I_{RRM}	peak reverse and off-state leakage current	$V_D = V_{DRM}, T_J = 125\text{ }^\circ\text{C}$		35	mA
I_{GT}	DC gate current required to trigger	$V_D = 6V, I_T = 1A$		50	mA
V_{GT}	DC gate voltage required to trigger	$V_D = 6V, I_T = 1A$		3	V

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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