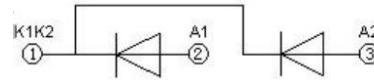


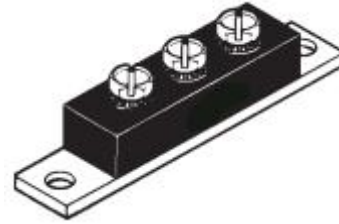
FEATURES

- Reduced RFI and EMI
- Reduced Snubbing
- Extensive Characterization of Recovery Parameters
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- These devices are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_R	Repetitive Peak Reverse Voltage	$I_R=100\mu A$	400	V
$I_{F(AV)}$	Average Forward Current	$T_c=25^\circ C$	172	A
I_{FSM}	Surge Forward Current		1200	A
P_D	Maximum Power Dissipation		278	W
T_J	Junction Temperature	$T_c=25^\circ C$	-55~150	$^\circ C$
T_{stg}	Storage Temperature Range		-55~150	$^\circ C$

THERMAL CHARACTERISTICS

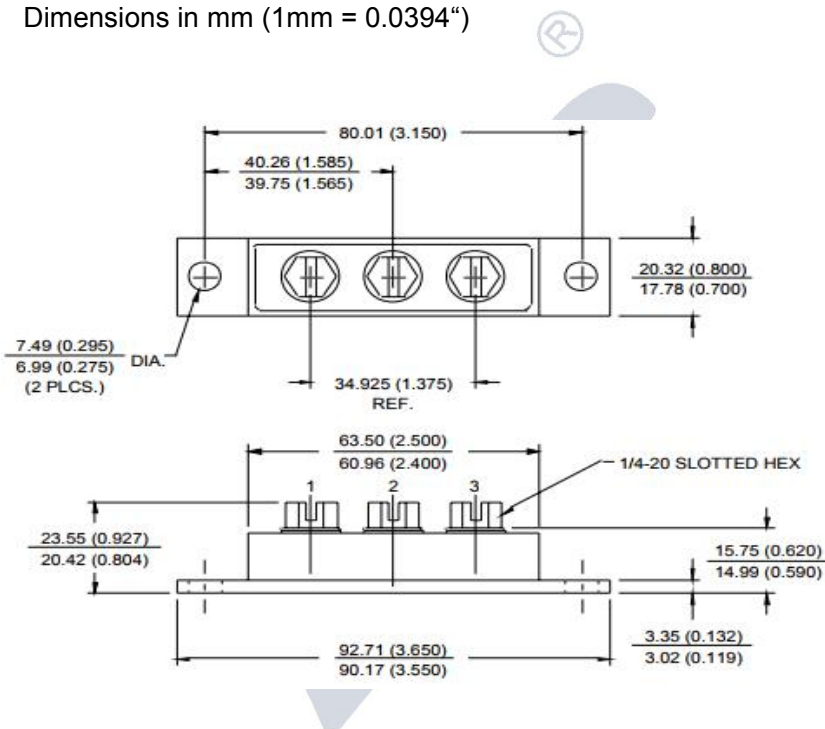
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	Per diode	0.45
		Per module	0.23
			$^\circ C/W$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Forward Voltage drop	$I_F = 100A, T_J = 25^\circ C$	1.2	V
I_R	Instantaneous Reverse Current	$V_R = 400V, T_J = 25^\circ C$	12	μA
		$V_R = 0.8 * V_{RRM}, T_J = 125^\circ C$	16	mA
t_{rr}	Reverse Recovery Time	$I_F = 1A, V_R = 30V$	60	ns

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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