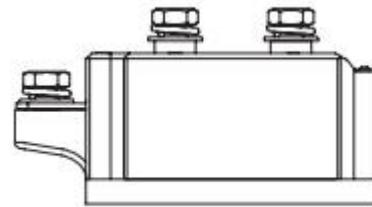
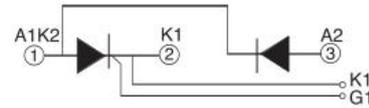


FEATURES

- High voltage
- Low gate current
- Low thermal resistance
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- power supplies
- Lighting circuits
- Temperature and motor speed control circuits



ELECTRICAL CHARACTERISTICS

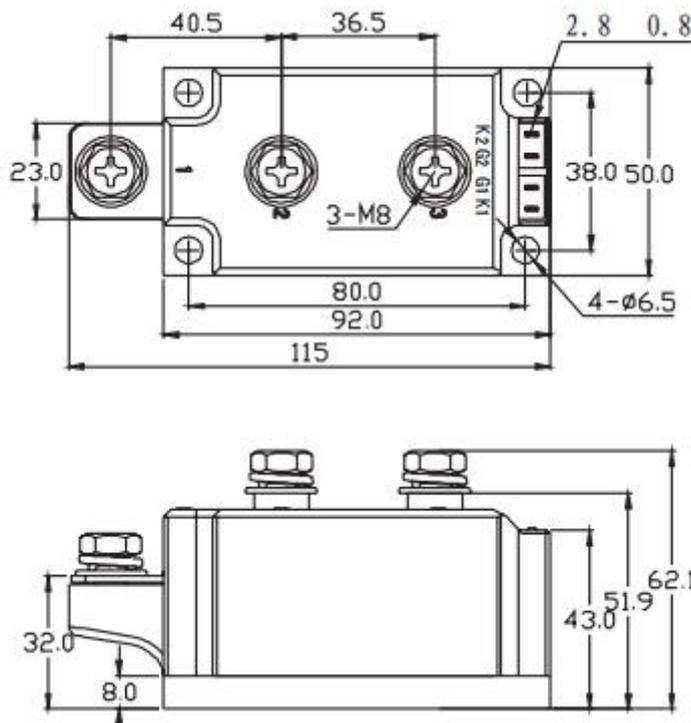
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage			1600	V
$I_{T(AV)}$	Average Forward Current	$T_c=85^\circ\text{C}$, 180° conduction, half sine wave		250	A
$I_{T(RMS)}$	RMS on-state current			393	A
I_{TSM}	Surge Forward Current	$t=10\text{ms}$, half sine wave		8500	A
I^2t	I^2t for fusing	$V_R=0.6V_{RRM}$		360000	A^2s
T_J	Junction Temperature		-40	125	$^\circ\text{C}$
T_{stg}	Storage Temperature Range		-40	125	$^\circ\text{C}$
V_{TM}	Forward Voltage Drop	$I_{TM}=750\text{A}$, $T_J=25^\circ\text{C}$		1.57	V
I_{DRM} I_{RRM}	Peak reverse and off-state leakage current	$T_J=125^\circ\text{C}$, rated V_{DRM}/V_{RRM} applied		30	mA
I_{GT}	DC gate current required to trigger	$V_A=12\text{V}$, $I_A=1\text{A}$, $T_J=25^\circ\text{C}$	30	180	mA
V_{GT}	DC gate voltage required to trigger		1	2.5	V
V_{iso}	Isolated Voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA(MAX)}$	2500		V

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	0.12	$^\circ\text{C/W}$

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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