

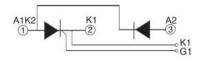
Thyristor/Diode Modules

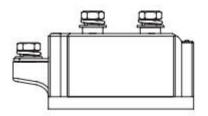
FEATURES

- · 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	Tc=85℃, 180° conduction, half sine wave		250	А
I _{T(RMS)}	RMS on-state current			393	А
I _{TSM}	Surge Forward Current	t=10ms,half sine wave V _R =0.6V _{RRM}		8500	А
I ² t	I ² t for fusing			360000	A ₂ s
T _J	Junction Temperature		-40	125	$^{\circ}$
T _{stg}	Storage Temperature Range		-40	125	$^{\circ}$
V _{TM}	Forward Voltage Drop	I _{TM} = 750A,T _J = 25°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 =12V,I _A =1A,T _J = 25 ℃	30	180	mA
V _{GT}	DC gate voltage required to trigger		1	2.5	V
V _{iso}	Isolated Voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(MAX)	2500		V

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT			
R _{th j-c}	Thermal Resistance, Junction to Case	0.12	°C/W			

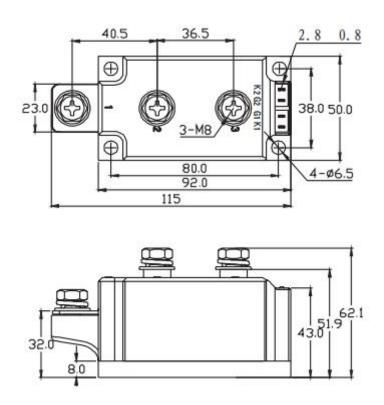
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Thyristor/Diode Modules

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394)



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