



Thyristor Module

Features

- Half-bridge SCR configuration integrated in a single package
- High-thermal-conductivity DBC insulation for excellent heat dissipation
- Vacuum soldering technology for enhanced reliability

Parameter	Value	Unit
V_{RRM}	1600	V
$I_{T(AV)}$ (@ $T_C = 85^\circ\text{C}$)	110	A
I_{TSM} (@ $t_p = 10\text{ms}$)	2250	A

Applications

- Heating control
- Light control system
- DC motor

Absolute Maximum Ratings (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Values	Unit
Repetitive peak off-state voltage	$T_{vj} = 25^\circ\text{C}$	V_{DRM}	1600	V
Repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RRM}	1600	V
Non-repetitive peak off-state voltage	$T_{vj} = 25^\circ\text{C}$	V_{DSM}	1700	V
Non-repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RSM}	1700	V

Average forward current

$T_C = 85^\circ\text{C}$

$I_{T(AV)}$ (pulsed) @ $f = 50\text{Hz}$ (10ms/100ms)

		V_{ISO}	3600/3000	V
Junction temperature range		T_J	-40 ~ +125	
Storage temperature range		T_{stg}	-40 ~ +125	







Circuit Diagram



Package Outlines (mm)



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