

**Thyristor Module****Features**

- Half-bridge SCR configuration integrated in a single package
- With high thermal conductivity DBC as the Insulation
- Welding by vacuum welding technology, which provide high reliability

Product Summary

Parameter	Value	Unit
V_{RRM}	1800	V
$I_{T(AV)}(@ T_C = 85^\circ\text{C})$	320	A

Applications

- Temperature control
- Light control system
- DC motor

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

Parameter	Non Repetitive	Conductive	peak offstate voltage	
	$T_{vj} = 25^\circ\text{C}$	V_{DSM}	1900	V
Non-repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RSM}	1900	V
Average forward current	$T_C = 85^\circ\text{C}$	$I_{T(AV)}$	320	A
Forward surge current	1/2 cycle, Sine wave, 50Hz $T_{vj} = 25$	I_{TSM}	9500	A
I^2t value for fusing		I^2t	450000	A^2s
Critical rate of rise of on-state current	$I_G = 2 \times I_{GT}$	di/dt	150	$\text{A}/\mu\text{s}$
RMS isolation voltage	A.C 50Hz(1s/1min)	V_{ISO}	3600/3000	V
Junction temperature range		T_J	-40 ~ +125	
Storage temperature range		T_{stg}	-40 ~ +125	



Ordering Information

Device	Marking	Package	Weight	Inner Box	PrPaT/T3 (t)-20.6 (r-ckag)n T
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