JMT320KT18T3

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)	320	A

Applications

- Temperature control
- Light control system
- DC motor

Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

Parameter	Non Con	direpetitive	peak off	state voltage	
	Tvj = 25°C		**V_{DSM}**	**1900**	**V**
Non-repetitive peak reverse voltage	**Tvj = 25°C**		**V_{RSM}**	**1900**	**V**
Average forward current	**T_C = 85°C**		**$I_{T(AV)}$**	**320**	**A**
Forward surge current	**1/2 cycle, Sine wave, 50Hz Tvj = 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×I_{GT}		di/dt	150	A/μs
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	PrCaT/T3 (t)-20.6 (r-ckag)n T