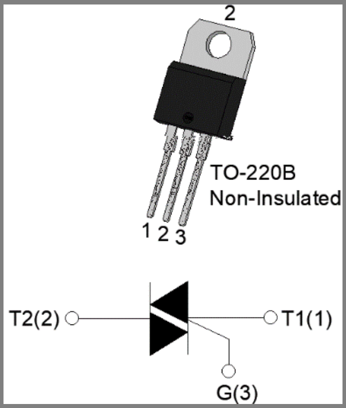
T2050H-6B-US

20A SCR

DESCRIPTION:

The T2050H-6B-US triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, light dimmers, and speed controllers. Compared to traditional triacs, T2050H-6B-US provides a very high switching capability up to junction temperatures of 150°C. Package TO-220B is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	20	A
V_{DRM} / V_{RRM}	600	V
I_{GT} / /	50/50/50	mA

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-150	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	600	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	600	V
RMS on-state current (T_C 124)	$I_{T(RMS)}$	20	A
Non repetitive surge peak on-state current (full cycle, t_p=20ms, T_j=25)	I_{TSM}	200	A
Non repetitive surge peak on-state current (full cycle, t_p=16.6ms, T_j=25)		220	
I^2t value for fusing (t_p=10ms, T_j=25)	I^2t	200	A^2s
Critical rate of rise of on-state current (I_G=2 × I_{GT}, f=100Hz, T_j=150)	dI/dt	100	A/µs
Peak gate current (t_p=20 µs, T_j=150)	I_{GM}	4	A
Average gate power dissipation (T_j=150)	$P_{G(AV)}$	1	W

ORDERING INFORMATION

FIG.1 Maximum power dissipation versus RMS on-state current

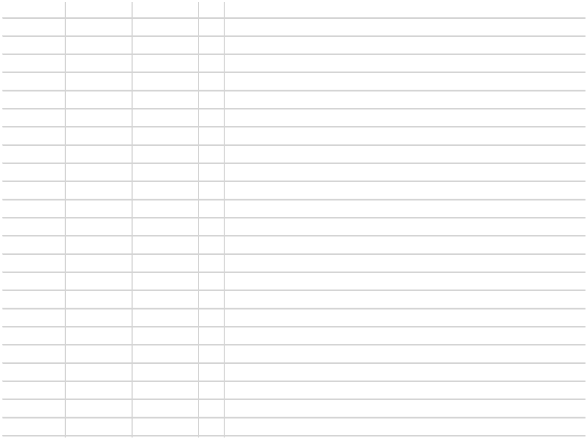


FIG.2: RMS on-state current versus case temperature

ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery

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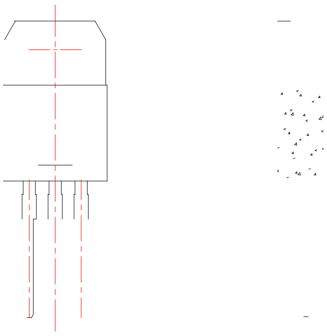

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