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Triacs

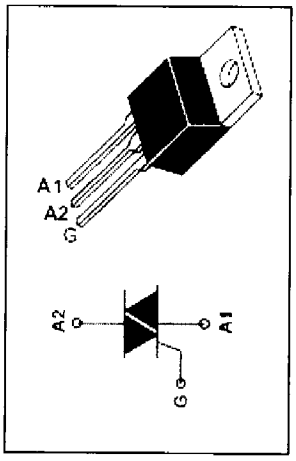
TIC225D

FEATURES

- With TO-220 package
- Sensitive Gate Triacs
- Glass Passivated
- Max I_{GT} of 5 mA (Quadrants 1)

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak reverse voltage	400	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)T_C=70℃	8	A
I_{TSM}	Non-repetitive peak on-state current	70	A
T_j	Operating junction temperature	110	℃
T_{stg}	Storage temperature	-45~150	℃
$R_{th(j-c)}$	Thermal resistance, junction to case	2.5	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	62.5	℃/W



ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, T_C=110℃	2.0	mA
I_{GT}	Gate trigger current	I	V_{supply} = 12 V†; R_L= 10Ω ; $t_{p(g)}$ >20μs	5	mA
		II		20	
		III		10	
		IV		30	
I_H	Holding current		V_{supply} = 12 V†, I_G= 0 initial I_{TM}= 100mA	20	mA
V_{GT}	Gate trigger voltage **all quadrant**		V_{supply} = 12 V†; R_L= 10Ω ; $t_{p(g)}$ >20μs	2	V
V_{TM}	On-state voltage		I_T= 12A; I_G= 50mA	2.1	V