

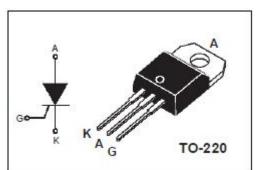
isc Thyristors

INCHANGE SEMICONDUCTOR

TIC106C

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection,motor control circuits in power tools and kitchen aids,in-rush current limiting circuits,
 capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage		V
V _{RRM}	Repetitive peak reverse voltage	300	V
I _{T(RMS)}	RMS on-state current @Tc=80℃	5	A
I _{T(AV)}	Average on-state current @Tc=80°C	3.2	A
I _{TSM}	Surge non-repetitive on-state current	30	A
Tj	Operating junction temperature	-40~110	°C
T _{stg}	Storage temperature	-40~125	°C

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;I _G =0;Tc=110		400	mA	
I _{DRM}	Repetitive peak off-state current	V _{D=} V _{DRM} Rated;Tc=110℃;R		1	mA	
VTM	On-state voltage	Ітм= 5А;		1.7	V	
I _{GT}	Gate-trigger current	V _{AA} = 6V;RL=100 Ω ;t _P ≥20 μ s			0.2	mA
V _{GT}	Gate-trigger voltage	V _{AA} = 6V;R _L =100 Ω; t _P ≥20 μ s;R _{GK} =1K Ω	Tc=-40℃		1.2	
			Tc=25 ℃	0.4	1.0	V
			Tc=110 ℃	0.2		

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