

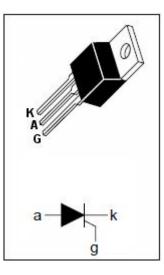
isc Thyristors TIC116N

APPLICATIONS

- 5A contimunous on-state current
- Glass passivated
- Max I_{GT} of 20uA

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT						
V_{DRM}	Repetitive peak off-state voltage	800	V						
V_{RRM}	Repetitive peak reverse voltage	800	V						
I _{T(AV)}	On-state current Tc=80°C	5	Α						
TSM	Surge non-repetitive on-state current T _P =10ms	80	А						
P_GM	Peak gate power P _w ≤300 μ s	5	W						
P _{G(AV)}	Average gate power	1	W						
Tj	Operating Junction temperature	-40 ~+125	$^{\circ}$						
T _{stg}	Storage temperature	-40 ~+150	$^{\circ}$						
R _{th(j-c)}	Thermal resistance, junction to case	1.5	°C/W						
R _{th(j-a)}	Thermal resistance, junction to ambient	60	°C/W						



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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , Tj=110°C			10	uA
I _{DRM}	Repetitive peak off-state current	V _{RM} =V _{RRM} , Tj=110°C			10	uA
V_{TM}	On-state voltage	I _{TM} = 8A			1.5	V
I _{GT}	Gate-trigger current	V _D =6V; R _L =100 Ω			20	uA
V _{GT}	Gate-trigger voltage	V _D =12V; R _L =100 Ω			0.8	V
I _H	Holding current	I _T =100mA Gate Open			20	mA

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