

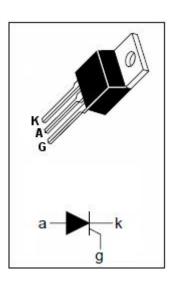
isc Thyristors TIC126N

APPLICATIONS

- 12A contimunous on-state current
- 100A surge-current
- · Glass passivated
- Max I_{GT} of 20mA
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=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	7.5	Α
I _{T(RMS)}	RMS on-state current Tc=80°C	12	Α
I _{TM}	Surge peak on-state current	100	Α
P_GM	Peak gate power P _W ≤300 μ s	5	W
$P_{G(AV)}$	Average gate power	1	W
Tj	Operating Junction temperature	110	$^{\circ}$
T _{stg}	Storage temperature	-40 ~+125	$^{\circ}$
R _{th(j-c)}	Thermal resistance, junction to case	2.4	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	62.5	°C/W



ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , Tj=110 ℃			2.0	mA
I _{DRM}	Repetitive peak off-state current	V _{RM} =V _{RRM} , Tj=110 ℃			2.0	mA
V_{TM}	On-state voltage	I _{TM} = 12A			1.4	V
I _{GT}	Gate-trigger current	V _{AA} =6V; R _L =100 Ω			20	mA
V _{GT}	Gate-trigger voltage	V _{AA} =6V; R _L =100 Ω			1.5	V
I _H	Holding current	V_{AA} =6V; R_{GK} =1k Ω , I_{T} =100mA			40	mA



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