

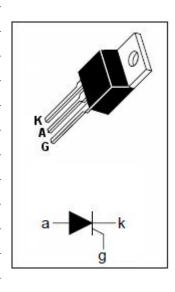
isc Thyristors TIC126M

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOULUTE INFARIMONI TATINGO(1a 200)								
SYMBOL	PARAMETER	MIN	UNIT					
V_{DRM}	Repetitive peak off-state voltage	600	V					
V _{RRM}	Repetitive peak reverse voltage	600	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	$^{\circ}$ C					
T _{stg}	Storage temperature	-40 ~+125	$^{\circ}$ C					
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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