

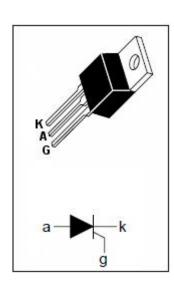
isc Thyristors TIC116D

APPLICATIONS

- 8A contimunous on-state current
- 80A 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	400	V
V_{RRM}	Repetitive peak reverse voltage	400	V
I _{T(AV)}	On-state current Tc=80°C	5	Α
I _{T(RMS)}	RMS on-state current Tc=80°C	8	Α
I _{TM}	Surge peak on-state current	80	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	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage temperature	-40 ~+125	$^{\circ}\!\mathbb{C}$
R _{th(j-c)}	Thermal resistance, junction to case	3	°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} = 8A			1.7	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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