New Jersey Semi-Conductor Products, Inc.

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Thyristors

TIC126D

APPLICATIONS

- 12A contimunous on-state current
- 100A surge-current
- Glass passivated
- Max I_{GT} of 20mA

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
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℃	7.5	A				
I _{T(RMS)}	RMS on-state current Tc=80°C	12	A				
I _{TM}	Surge peak on-state current	100	A				
Р _{GM}	Peak gate power P _W ≤300 µ s	5	W				
P _{G(AV)}	Average gate power	1	w				
Tj	Operating Junction temperature	110	°C				
T _{stg}	Storage temperature	-40 ~+125	°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°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , Тј=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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Quality Semi-Conductors