New Jersey Semi-Conductor Products, Inc.

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Thyristors

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TIC106M

APPLICATIONS

• 5A contimunous on-state current

- 30A surge-current
- · Glass passivated
- Max I_{GT} of 200 μ A

SYMBOL	PARAMETER	MIN	UNIT
	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
I _{T(AV)}	On-state current Tc=80℃	3.2	A
I _{T(RMS)}	RMS on-state current Tc=80°C	5	A
I _{TM}	Surge peak on-state current	30	A
P _{GM}	Peak gate power $P_W \leqslant 300 \mu$ s	1.3	w
P _{G(AV)}	Average gate power	0.3	W
Tj	Operating Junction temperature	110	°C
T _{stg}	Storage temperature	-40 ~+125	Ĉ
R _{th(j-c)}	Thermal resistance, junction to case	1.9	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	62.5	°C /W

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



ELECTRICAL CHARACTERISTICS (Tc=25 $^{\circ}$ C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , V _{RM} =V _{RRM} , Tj=110℃			0.4 1.0	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , V _{DM} =V _{DRM} , Tj=110℃			0.4 1.0	mA
V_{TM}	On-state voltage	I _™ = 5A			1.7	v
I _{GT}	Gate-trigger current	V _{AA} =6V; R _L =1k Ω			200	μA
V_{GT}	Gate-trigger voltage	V _{AA} =6V; R _L =100 Ω			1.0	V
Ι _Η	Holding current	V_{AA} =6V; R_{GK} =1k Ω , I_T = 10mA			5	mA



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Quality Semi-Conductors