

isc Thyristors

INCHANGE Semiconductor

70TPS16

DESCRIPTION

- With TO-247 packaging
- Long-term stability
- Thyristor for line frequency
- Planar passivated chip
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Line rectifying 50/60 Hz

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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Ge	K	2	
ĸ	G	TO-247	

SYMBOL	PARAMETER		MIN	UNIT	
V _{DRM}	Repetitive peak off-state voltage	4	1600	V	
V _{RRM}	Repetitive peak reverse voltage	1600	V		
I _{T(AV)}	Average forward current	@Tc=150℃		Α	
I _{T(RMS)}	RMS on-state current		75	A	
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave)		1400	A	
$P_{G(AV)}$	Average gate power dissipation		0.5	W	
Tj	Operating junction temperature		-40~125	°C	
T _{stg}	Storage temperature		-40~150	°C	

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

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	Tj =25 ℃		1	m۸
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	Tj =125 ℃		15	mA
V _{TM}	On-state voltage	I _{TM} = 100A			1.4	V
I _{GT}	Gate-trigger current V _D = 6V			100	mA	
V _{GT}	Gate-trigger voltage V _D = 6V			1.5	V	
R _{th(j-c)}	Thermal resistance	Junction to case			0.27	°C/W

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