



isc Thyristors

70TPS12

DESCRIPTION

- With TO-3PN packaging
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Solid state relays;heating and cooking appliances
- Switching applications

1 2 3 TO-247 package

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER		МАХ	UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(AV)}	Average on-state current @Tc=82°C		70	А
I _{TSM}	Surge non-repetitive on-state current	60HZ	1200	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature		-40~150	°C
T _{stg}	Storage temperature			°C



70TPS12

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	, , , , , , , , , , , , , , , , , , , ,	Tj=25℃ Tj=125℃		1.0 15	mA
I _{DRM}	Repetitive peak off-state current					
V _{TM}	On-state voltage	I _T =100A			1.5	V
I _{GT}	Gate-trigger current	V _D =6V		100	mA	
V _{GT}	Gate-trigger voltage	V _D =6V		1.5	V	
Rth _(j-c)	Junction to case				0.27	°C/W

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

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