

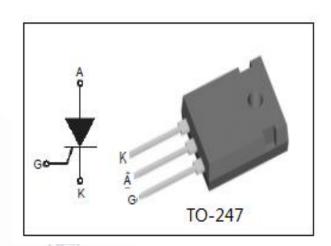
isc Thyristors VS-70TPS16

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℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	1600	V
V_{RRM}	Repetitive peak reverse voltage	1600	V
I _{T(AV)}	Average forward current @Tc=150℃	70	Α
I _{T(RMS)}	RMS on-state current	75	Α
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave)	1400	Α
$P_{\text{G(AV)}}$	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$ C
T _{stg}	Storage temperature	-40~150	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =25℃		1	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		15	IIIA
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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