isc

isc Thyristors

BT150S-600R

DESCRIPTION

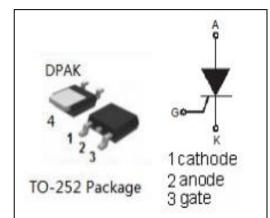
- With TO-252 packaging
- Long-term stability
- Thyristor for line frequency
- Planar passivated chip
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Line rectifying 50/60 Hz

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER			UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(AV)}	Average forward current			А
I _{T(RMS)}	RMS on-state current			A
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,half sine wave)	50Hz 60Hz	35 38	A
P _{G(AV)}	Average gate power dissipation (over any 20ms period)			W
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			°C



INCHANGE SEMICONDUCTOR



BT150S-600R

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} V _{DM} =V _{DRM}	Tj =125 ℃		0.5	mA
I _{DRM}	Repetitive peak off-state current					
V _{TM}	On-state voltage	I _{TM} = 5A			1.8	V
I _{GT}	Gate-trigger current	V _D = 12V; I _T =0.1A			0.2	mA
V _{GT}	Gate-trigger voltage	V _D = 12V; I _T =0.1A			1.5	V
$R_{\text{th}(j\text{-mb})}$	Thermal resistance	Junction to mounting base			3.0	°C/W

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



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