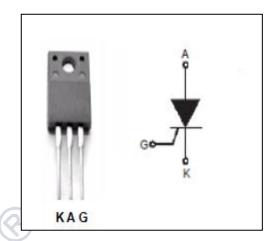


isc Thyristors

BT152X-600R

DESCRIPTION

- · With TO-220F 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)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	650	V
V_{RRM}	Repetitive peak reverse voltage	650	V
I _{T(AV)}	Average forward current Tc=40°C	13	Α
I _{T(RMS)}	RMS on-state current	20	Α
I _{TSM}	Surge non-repetitive on-state current 50HZ ($1/2$ cycle,sine wave;Tc= 45° C) 60HZ	200 220	Α
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage temperature	-40~150	$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _i =125℃		1.0	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	1 125 C		1.0	IIIA
V_{TM}	On-state voltage	I _{TM} = 40A			1.75	V
I _{GT}	Gate-trigger current	V _D = 12V; I _T =0.1A		32	mA	
V _{GT}	Gate-trigger voltage	V _D = 12V; I _T =0.1A		1.5	V	
R _{th(j-c)}	Thermal resistance	Junction to case			4.0	°C/W

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