

isc Thyristors

INCHANGE SEMICONDUCTOR

BT258X-800R

KAG

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	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(AV)}	Average forward current Tc=90°C	5	А
I _{T(RMS)}	RMS on-state current	8	A
I _{TSM}	Surge non-repetitive on-state current50HZ(1/2 cycle,sine wave;Tj=25°C)60HZ	75 82	Α
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}	T-125°C		0.5	m 1
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	Tj =125 ℃		0.5	mA
V _{TM}	On-state voltage	I _{TM} = 16A			1.6	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 _{th(j-c)}	Thermal resistance	Junction to case			5.0	°C/W

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