

isc Thyristors BT169EW

DESCRIPTION

- · With SOT-223 packaging
- High surge capability
- Glass passivated junctions and center gate fire for greater parameter uniformity and stability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

A(2) • K(1) G(3) 1 2 3 SOT-223 1 cathode 2 gate 3 anode

APPLICATIONS

Switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	500	V
V_{RRM}	Repetitive peak off-state voltage	500	V
I _{T(AV)}	Average on-state current	0.63	Α
I _{T(RMS)}	RMS on-state current	1	Α
$P_{G(AV)}$	Average gate power	0.1	W
I _{TSM}	Non-repetitive peak on-state current	8	Α
Tj	Operating junction temperature	-40~110	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak off-state voltage	V _{RRM} =500V		5	μ А
	Repetitive peak reverse voltage	V _{RRM} =500V;T _j =110℃		100	
IDRM	Repetitive peak reverse current	V _{RRM} =500V		5	μ А
	Repetitive peak off-state current	V _{DRM} =500V;T _j =110℃		100	
I _{GT}	Gate trigger current	V _D = 12V; I _T = 10mA		120	μ A
V _{TM}	On-state voltage	I _T =2A		1.5	V
I _H	Holding current	I _{GT} =0.5mA ,V _D =12V		5	mA
V _{GT}	Gate trigger voltage	V _D = 12V; I _T = 10mA		0.8	V

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