

isc Thyristors BT169DW

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) SOT-223 1 cathode 2 gate 3 anode

APPLICATIONS

Switching applications

ABSOLUTE MAXIMUM RATINGS(T_a =25 $^{\circ}$ C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak off-state voltage	400	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	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak off-state voltage	V _{RRM} =400V		5	μ Α
	Repetitive peak reverse voltage	V _{RRM} =400V;T _j =110℃		100	
IDRM	Repetitive peak reverse current	V _{RRM} =400V		5	μ А
	Repetitive peak off-state current	V _{DRM} =400V;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

isc Thyristors BT169DW



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.