

BT169D

FEATURES

- With TO-92 package
- · Sensitive gate trigger current
- · Low reverse and forward blocking current
- Low holding current
- For general purpose switching and phase control applications.
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

SYMBOL	PARAMETER	MIN	UNIT	A O
V _{DRM}	Repetitive peak off-state voltage	400	V	
V _{RRM}	Repetitive peak off-state voltage	400	V	Tud
I _{T(AV)}	Average on-state current	0.5	A	
I _{T(RMS)}	RMS on-state current	0.8	A	
P _{GM}	Peak gate power	2	W	кg
P _{G(AV)}	Average gate power	0.1	w	А
I _{TSM}	Non-repetitive peak on-state current	8	A	1 cathode
Tj	Operating junction temperature	125	°C	2 gate 3 anode
T _{stg}	Storage temperature	-40~+ 150	°C	Janoue

ABSOLUTE MAXIMUM RATINGS(T_=25°C)

ELECTRICAL CHARACTERISTICS (Tc=25 $^{\circ}$ C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{DRM}	Repetitive peak off-state voltage	I _D =0.1mA	400		V
V _{RRM}	Repetitive peak reverse voltage	I _D =0.5mA	400		V
IRRM	Repetitive peak reverse current	V _{RRM} =400V		10	μA
I _{DRM}	Repetitive peak off-state current	V _{DRM} =400V		10	μA
I _{GT}	Gate trigger current	V _D = 12V; I _T = 10mA		200	μA
V _{TM}	On-state voltage	I⊤=1A		1.35	V
Iн	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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