

## Thyristors

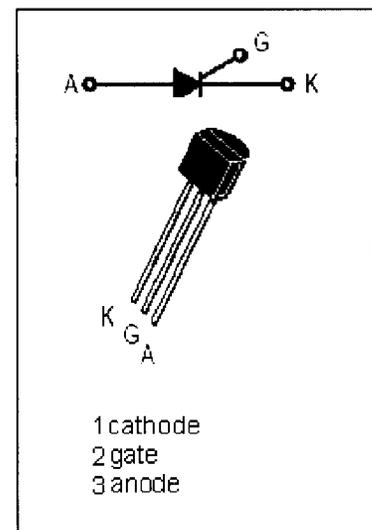
## BT169D

### 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.

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

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	0.5	A
$I_{T(RMS)}$	RMS on-state current	0.8	A
$P_{GM}$	Peak gate power	2	W
$P_{G(AV)}$	Average gate power	0.1	W
$I_{TSM}$	Non-repetitive peak on-state current	8	A
$T_j$	Operating junction temperature	125	$^\circ\text{C}$
$T_{stg}$	Storage temperature	-40~+ 150	$^\circ\text{C}$



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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	$I_D=0.1\text{mA}$	400		V
$V_{RRM}$	Repetitive peak reverse voltage	$I_D=0.5\text{mA}$	400		V
$I_{RRM}$	Repetitive peak reverse current	$V_{RRM}=400\text{V}$		10	$\mu\text{A}$
$I_{DRM}$	Repetitive peak off-state current	$V_{DRM}=400\text{V}$		10	$\mu\text{A}$
$I_{GT}$	Gate trigger current	$V_D=12\text{V}; I_T=10\text{mA}$		200	$\mu\text{A}$
$V_{TM}$	On-state voltage	$I_T=1.2\text{A}$		1.7	V
$I_H$	Holding current	$I_{GT}=0.5\text{mA}, V_D=12\text{V}$		5	mA
$V_{GT}$	Gate trigger voltage	$V_D=12\text{V}; I_T=10\text{mA}$		0.8	V

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