

Thyristors

INCHANGE

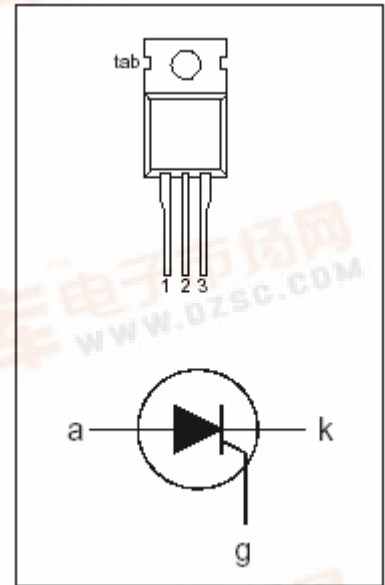
BT151-600

◆ Features

- With TO-220 package
- 1 cathode 2 anode 3 gate
- For use in applications requiring high bidirectional blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.

◆ QUICK REFERENCE DATA

SYMBOL	PARAMETER	MIN	UNIT	
V_{DRM}	Repetitive peak off-state voltage	600	V	
V_{RRM}	Repetitive peak reverse voltage	600	V	
$I_{T(AV)}$	Average on-state current	7.5	A	
$I_{T(RMS)}$	RMS on-state current	12	A	
I_{TSM}	Non-repetitive peak on-state current	100	A	
P_{GM}	Peak gate power	5	W	
$P_{G(AV)}$	Average gate power	0.5	W	
T_{stg}	Storage temperature	-45~150	°C	
T_j	Operating junction temperature	110	°C	TO-220



◆ LIMITING VALUES

Limiting values in accordance with the absolute maximum system(IEC 134)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage		600		V
V_{RRM}	Repetitive peak reverse voltage		600		V
I_{GT}	Gate trigger current	$V_D=12V; I_T=0.1A$		15	mA
V_T	On-state voltage	$I_T=23A$		1.75	V
V_{GT}	Gate trigger voltage	$V_D=12V; I_T=0.1A$		1.5	V