

BT139-600Bbidirectional triode thyristor

- **needroad:**

Mainly used for dimming, temperature regulation and other voltage control circuit, microwave oven, washing machine, electric fan, water dispenser, night light and other home appliances control circuit and used for AC phase control, chopper, inverter, inverter and solid state relay and other circuits.

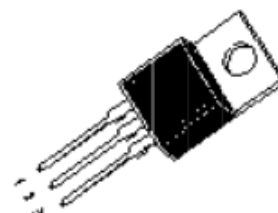
- **feature:**

High breakdown voltage, high output current, low through-state pressure drop, high reliability and stability

- **Packaging form:**

T0-220

TO-220



- **extreme:**

1.T1 阳极1 2. 阴极 2 3.控制极

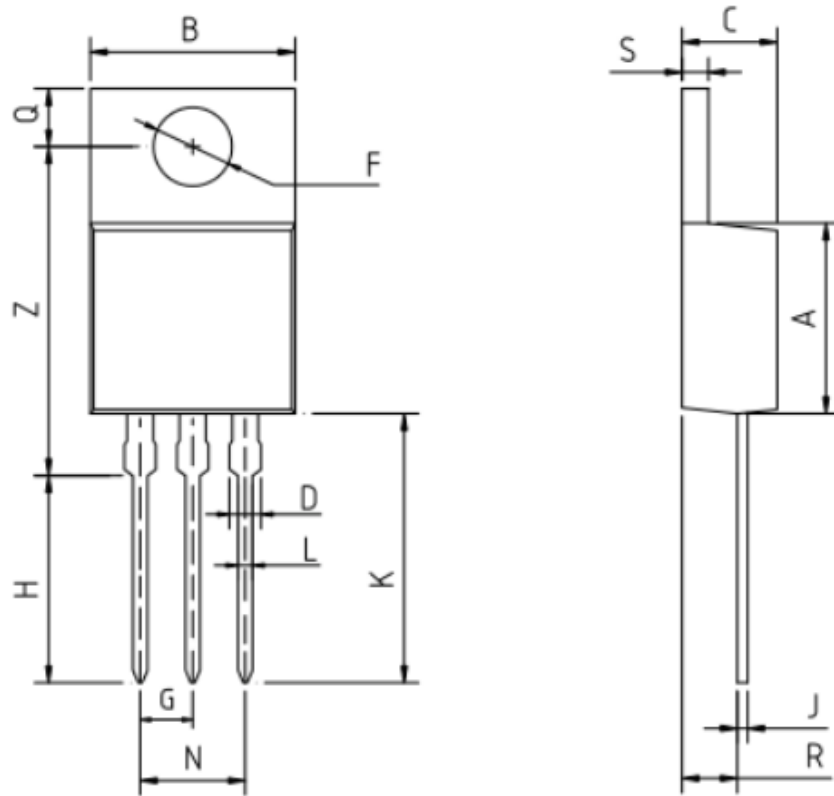
name	symbol	numeric value	unit	condition
Off-state repeat peak voltage	V_{DRM}	600	V	
repetitive peak reverse voltage	V_{RRM}	600	V	
RMS on state current	$I_{T(RMS)}$	16	A	Sine wave of 180°
surge current	I_{TSM}	160	A	Sine wave, 60Hz
junction temperature	T_j	-40~125	°C	
storage temperature	T_{stg}	-40~150	°C	

- **Electrical characteristics ($T_a=25^{\circ}C$)**

characteristic	sym bol	condition	least value	crest value	represe ntative value	unit
Break-state repeat peak current	I_{DRM}	$V=V_{DRM}$	----	0.02	0.01	mA
Reverse repeat peak current	I_{RRM}	$V=V_{RRM}$	----	0.02	0.01	mA
on state voltage	V_{TM}	$I_T=20A$	----	1.7	1.55	V
stand-by current	I_H	$I_T=100m A$	----	50		mA
latching current	I	$I_G=1.2I_{GT}$	----	50		mA
	II		----	100		mA
	III		----	50		mA
	IV		----	50		mA
gate trigger current	I	$V_D=12V, R_L=100\Omega$	----	30	8	mA
	II		----	50	15	mA
	III		----	50	15	mA

	IV			----	70	50	mA
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Size drawing of TO-220 appearance typeunit:mm



symbol	least value	representative value	crest value
A	8.8	9	9.2
B	9.5	10	10.5
C	4.5	4.5	4.8
D	1.2	1.25	1.3
F	Φ 3.4	Φ 3.6	Φ 3.8
G		2.54	
H	9.5	10	10.5
J	0.43	0.45	0.47
K	13	13.5	14
L	0.75	0.8	0.85
N		5.08	
Q	2.7	2.8	2.9
R	2.7	2.75	2.8
S	1.2	1.25	1.3
Z	15.7	15.9	16.1