

BT136

### Absolute maximum ratings

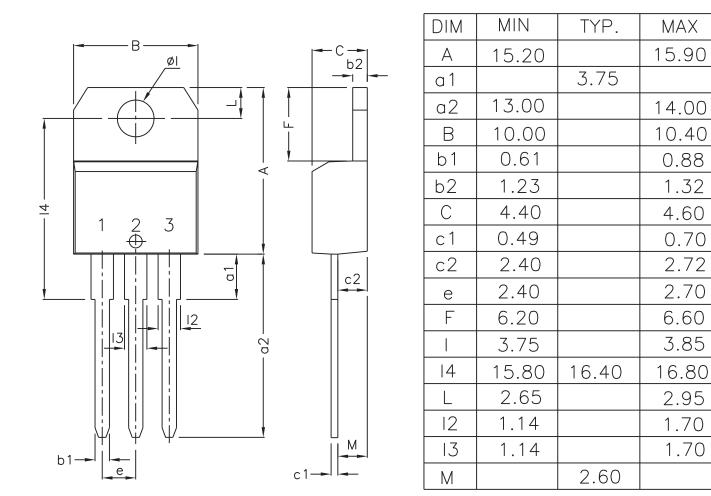
Parameter	Symbol	Value	Unit	Test condition
peak repetitive off-stage voltage	V <sub>DRM</sub> , V <sub>RRM</sub>	600	V	
on-state RMS current	I <sub>T</sub> (RMS)	4	А	TL <u>≤</u> 66ºC
NON repetitive surge peak on-state current	I <sub>TSM</sub>	25	А	Tp=20ms, Tj=25 °C
critical rate of rise on-state current	dl/dt (Q <sub>1-3</sub> )	50	A/μs	I <sub>TM</sub> =20A, T <sub>G</sub> =0.2A
peak gate current	I <sub>GM</sub>	2	А	
average gate power dissipation	P <sub>G</sub> (AV)	0.5	W	
storage temperature range	Tstg	-40 to +150	°C	
operating junction temperature range	Tj	125	°C	

#### Electrical characteristics (Tj=25°C) unless otherwise specified

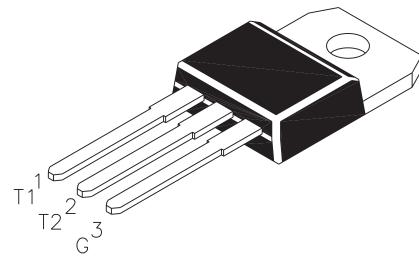
Parameter	Symbol	Value	Unit	Test condition
gate trigger current	I <sub>GT</sub>	<u>&lt;</u> 10	mA	T2+G+ V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
		<u>&lt;</u> 10	mA	T2+G- V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
		<u>&lt;</u> 10	mA	T2-G- V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
		<u>&lt;</u> 25	mA	T2-G+ V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
gate trigger voltage	V <sub>GT</sub>	<u>≤</u> 1.5	V	V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
hold current	I <sub>H</sub>	<u>&lt;</u> 30	mA	V <sub>D</sub> =12V, I <sub>T</sub> =0.1A
critical rate of rise off-state voltage	dv/dt	<u>≥</u> 50	V/µs	$V_{D}=67\%V_{DRM}$
on-state voltage	V <sub>TM</sub>	<u>&lt;</u> 1.7	V	I <sub>T</sub> =5A
off-state leakage current	I <sub>DRM</sub>	<u>≤</u> 0.5	mA	V <sub>D</sub> =V <sub>DRM</sub> ; Tj=125°C
thermal resistance	Rth(j-a)	60	°C/W	
	Rth(j-c)	<u>≤</u> 3.7		

2017-03 REV:O38

PACKAGE TO-220 AB



ALL DIMENSIONS ARE IN mm



## PIN CONFIGURATION:-

- 1. MAIN TERMINAL 1
- 2. MAIN TERMINAL 2
- 3. GATE

**CRECTRON** -

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