

## Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





BT136F TO-220F

## **Triac Series**

Absolute maximum ratings

Parameter	Symbol	Value	Unit	Test condition
peak repetitive off-stage voltage	$V_{DRM}, V_{RRM}$	600	V	
on-state RMS current	I <sub>T</sub> (RMS)	4	Α	TL <u>&lt;</u> 66°C
NON repetitive surge peak on-state current	I <sub>TSM</sub>	25	Α	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	Α	
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 (Ti=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+ $V_D$ =12V, $I_T$ =0.1A
		<u>&lt;</u> 10	mA	T2+G- $V_D=12V$ , $I_T=0.1A$
		<u>&lt;</u> 10	mA	T2-G- $V_D=12V$ , $I_T=0.1A$
		<u>&lt;</u> 25	mA	T2-G+ $V_D=12V$ , $I_T=0.1A$
gate trigger voltage	V <sub>GT</sub>	<u>&lt;</u> 1.5	V	$V_D = 12V, I_T = 0.1A$
hold current	I <sub>H</sub>	<u>≤</u> 30	mA	$V_D=12V$ , $I_T=0.1A$
critical rate of rise off-state voltage	dv/dt	<u>≥</u> 50	V/μs	$V_D=67\%V_{DRM}$
on-state voltage	$V_{TM}$	<u>&lt;</u> 1.7	V	I <sub>T</sub> =5A
off-state leakage current	I <sub>DRM</sub>	<u>&lt;</u> 0.5	mA	V <sub>D</sub> =V <sub>DRM</sub> ; Tj=125°C
thermal resistance	R <sub>th(j-a)</sub>	60	°C/W	
	R <sub>th(j-c)</sub>	<u>&lt;</u> 3.7		

## Disclaimer

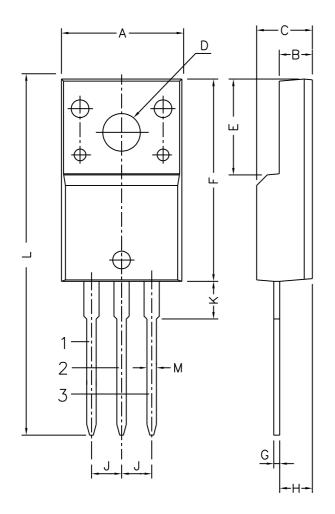
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BT136F Rev270310E



DIM	MIN	MAX		
Α	9.80	10.36		
В	2.50	3.00		
С	4.30	4.90		
D	3.10	3.40		
E	6.50	8.20		
F	14.80	17.27		
G	0.40	0.70		
Н	2.50	2.96		
J	2.34	2.74		
K	_	4.70		
L	_	30.05		
М	0.60	0.90		

ALL DIMENSIONS ARE IN mm

