

Continental Device India Limited

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





BT136 TO-220

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 _T (RMS)	4	А	TL <u><</u> 66ºC
NON repetitive surge peak on-state current	I _{TSM}	25	Α	Tp=20ms, Tj=25 ºC
critical rate of rise on-state current	dl/dt (Q ₁₋₃)	50	A/μs	I _{TM} =20A, T _G =0.2A
peak gate current	I _{GM}	2	Α	
average gate power dissipation	P _G (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 _{GT}	<u><</u> 10	mA	$T2+G+ V_D=12V, I_T=0.1A$
		<u><</u> 10	mA	T2+G- $V_D=12V$, $I_T=0.1A$
		<u><</u> 10	mA	T2-G- $V_D=12V$, $I_T=0.1A$
		<u><</u> 25	mA	T2-G+ $V_D=12V$, $I_T=0.1A$
gate trigger voltage	V _{GT}	<u><</u> 1.5	V	V _D =12V, I _T =0.1A
hold current	I _H	<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>≤</u> 1.7	V	I _T =5A
off-state leakage current	I _{DRM}	<u><</u> 0.5	mA	V _D =V _{DRM} ; Tj=125°C
thermal resistance	Rth(j-a)	60	°C/W	
	Rth(j-c)	<u>≤</u> 3.7		

Disclaimer

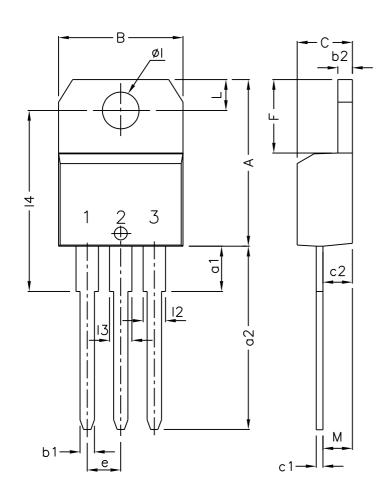
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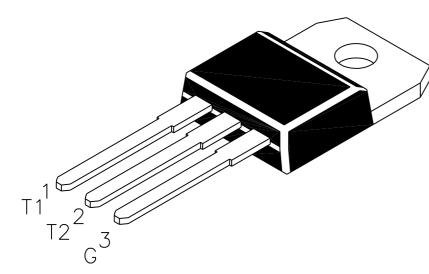
CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119 email@cdil.com www.cdilsemi.com

PACKAGE TO-220 AB



DIM	MIN	TYP.	MAX
Α	15.20		15.90
a1		3.75	
a2	13.00		14.00
В	10.00		10.40
b1	0.61		0.88
b2	1.23		1.32
С	4.40		4.60
c1	0.49		0.70
c2	2.40		2.72
е	2.40		2.70
F	6.20		6.60
	3.75		3.85
14	15.80	16.40	16.80
L	2.65		2.95
12	1.14		1.70
13	1.14		1.70
М		2.60	

ALL DIMENSIONS ARE IN mm



PIN CONFIGURATION:-

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