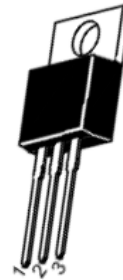


## Marking

**BT136**  
**XYX**

Part No.: BT136  
Year Code: X(2019---A,2020---B...2030---L)  
Month Code: YY(01~12)

## TO-220AB



### PIN CONFIGURATION:

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

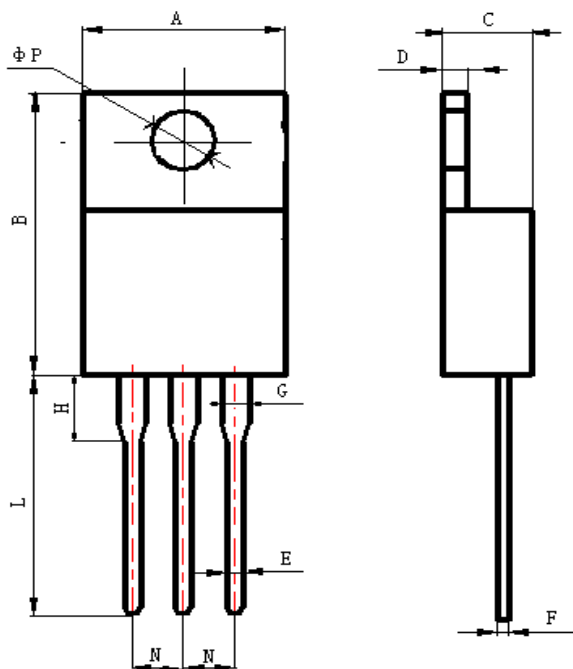
### Absolute maximum ratings

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	A	$T_L \leq 66^\circ C$
NON repetitive surge peak on-state current	$I_{TSM}$	25	A	$T_p=20ms, T_j=25^\circ C$
critical rate of rise on-state current	$di/dt (Q_{1-3})$	50	A/ $\mu s$	$I_{TM}=20A, T_G=0.2A$
peak gate current	$I_{GM}$	2	A	
average gate power dissipation	$P_G(AV)$	0.5	W	
storage temperature range	$T_{stg}$	-40 to +150	$^\circ C$	
operating junction temperature range	$T_j$	125	$^\circ C$	

### Electrical characteristics ( $T_j=25^\circ C$ ) unless otherwise specified

Parameter	Symbol	Value	Unit	Test condition
gate trigger current	$I_{GT}$	$\leq 10$	mA	T2+G+ $V_D=12V, I_T=0.1A$
		$\leq 10$	mA	T2+G- $V_D=12V, I_T=0.1A$
		$\leq 10$	mA	T2-G- $V_D=12V, I_T=0.1A$
		$\leq 25$	mA	T2-G+ $V_D=12V, I_T=0.1A$
gate trigger voltage	$V_{GT}$	$\leq 1.5$	V	$V_D=12V, I_T=0.1A$
hold current	$I_H$	$\leq 30$	mA	$V_D=12V, I_T=0.1A$
critical rate of rise off-state voltage	$dv/dt$	$\geq 50$	V/ $\mu s$	$V_D=67\%V_{DRM}$
on-state voltage	$V_{TM}$	$\leq 1.7$	V	$I_T=5A$
off-state leakage current	$I_{DRM}$	$\leq 0.5$	mA	$V_D=V_{DRM}; T_j=125^\circ C$
thermal resistance	Rth(j-a)	60	$^\circ C/W$	
	Rth(j-c)	$\leq 3.7$		

# PACKAGE TO-220 AB



单位: mm

Unit (mm)	MIN	MAX
A	10.15	10.2
B	14.9	15.5
C	4.5	4.7
D	1.27	1.35
E	0.65	0.85
F	0.4	0.5
G	1.26	1.29
H	3.32	3.78
L	13.67	14.67
N	2.24	2.54
$\phi P$	3.84	3.87

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