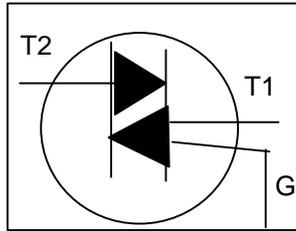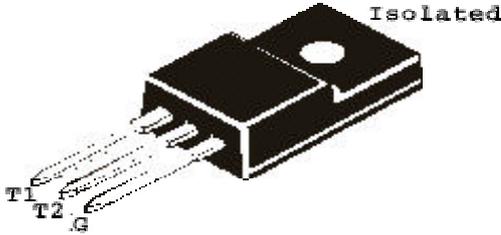**TRIAC**

BT136X-600E

TO-220FP Fully Isolated Plastic Package

For use in high bidirectional transient and blocking voltage applications, and for high thermal cycling performance. Typical Applications include Motor Control, Industrial and Domestic Lighting, Heating and Static Switching.

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Off State Voltage	V_{DRM}	600	V
RMS on State Current	$I_{T\,(RMS)}$	4.0	A
Non Repetitive Peak on State Current	I_{TSM}	25	A
I^2t for Fusing	I^2t	3.1	A^2s
Repetitive Rate of Rise of On State Current After Triggering	dI_T/dt	50	A/µs
Peak Gate Current	I_{GM}	2.0	A
Peak Gate Power	$P_{G\,M}$	5.0	W
Average Gate Power	$P_{G\,(AV)}$	0.5	W
Storage Temperature	T_{stg}	- 40 to 150	ºC
Operating Junction Temperature	T_j	125	ºC

ELECTRICAL CHARACTERISTICS (T_J=25ºC unless specified otherwise)

PARAMETER	SYMBOL	TEST CONDITION		MIN	MAX	UNIT
Gate Trigger Current	I_{GT}	V_D=12V, I_T=0.1A				
			I		10	mA
			II		10	mA
			III		10	mA
			IV		25	mA
Holding Current	I_H	V_D=12V, I_{GT}=0.1A			20	mA
Gate Trigger Voltage	V_{GT}	V_D=12V, I_T=0.1A			1.5	V
On State Voltage	V_T	I_T=5A			1.7	V
Off State Leakage Current	I_D	V_{DRM}=600V			0.5	mA

BT136X_600ERev021104E

TO-220FP Fully Isolated Plastic Package

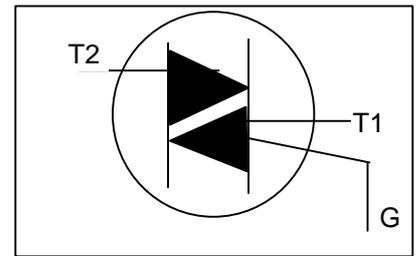| DIM	MIN	MAX
A	9.96	10.36
B	2.60	3.00
C	4.50	4.90
D	3.10	3.30
E	7.90	8.20
F	16.37	17.27
G	0.45	0.50
H	2.56	2.96
J	2.34	2.74
K	—	3.08
L	—	30.05
M	—	0.80

All dimensions in mm.
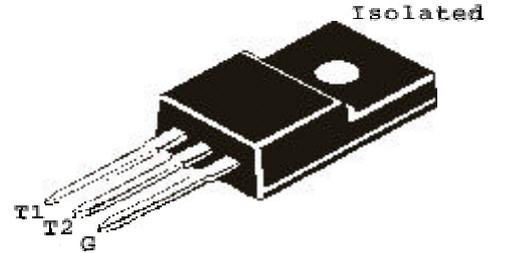
Isolated

Pin Configuration
1. Main Terminal 1
2. Main Terminal 2
3. Gate
Case Isolated

TO-220 Tube Packing

End Pin

±1.5
536.00

Label

DEVICE NAME
Sr.
QTY.

13.74

32.85

6.87
Tube Thickness

50 Pcs./Tube

All Dimensions in mm

AMMO PACK SIZE

92.0

Label

538.00

75.0

20 Tubes/Ammo Pack
1000 Pcs./Ammo Pack
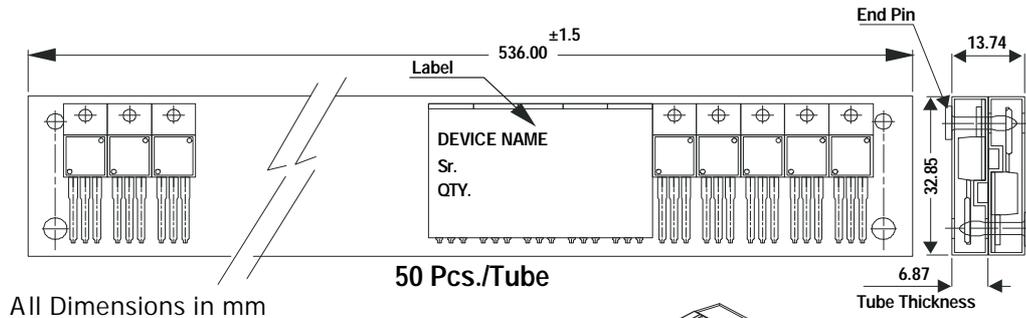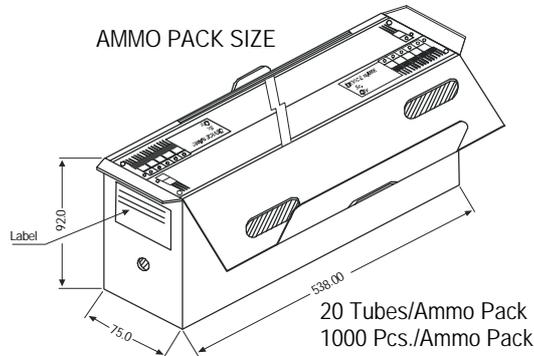
Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220FP	200 pcs/polybag	396 gm/200 pcs	3" x 7.5" x 7.5"	1.0K	17" x 15" x 13.5"	16.0K	36 kgs
	50 pcs/tube	120 gm/50 pcs	3.5" x 3.7" x 21.5"	1.0K	19" x 19" x 19"	10.0K	29 kgs

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