

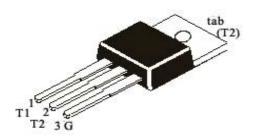
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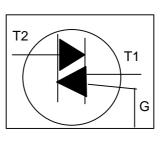
TRIAC



BT136D

TO-220 Plastic Package





For use in General Purpose Bidirectional Switching and Phase Control Applications

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	TEST CONDITION	VALUE	UNIT
Repetitive Peak Off State Voltage	V _{DRM}		600	V
RMS on State Current	I _{T (RMS)}	full sine wave, T _{mb} <u><</u> 107°C	4.0	А
Non Repetitive Peak on State Current	I _{TSM}	full sine wave, T _J =25°C prior		
		to Surge t=20ms t=16.7ms	25 27	A A
I ² t for Fusing	l ² t	t=10ms	3.1	A ² s
Repetitive Rate of Rise of on State Current After Triggering	dl _T /dt	I _{TM} =6A, I _G =0.2A, dI _G /dt=0.2A/μs		
		T2+ G+ T2+ G-	50 50	A/μs A/μs
		T2- G- T2- G+	50 10	A/μs A/μs
Peak Gate Current	I _{GM}		2.0	А
Peak Gate Voltage	V _{GM}		5.0	V
Peak Gate Power	P _{GM}		5.0	W
Average Gate Power	P _{G (AV)}	Over any 20ms period	0.5	W
Storage Temperature	T _{stg}		- 40 to 150	°C
Operating Junction Temperature	Τ _j		125	°C

THERMAL RESISTANCE

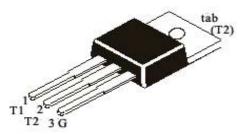
Junction to Mounting Base	R _{th (j-mb)}	full cycle	3.0 max	K/W
		half cycle	3.7 max	K/W
Junction to Ambient	R _{th (j-a)}	in free air	60 typ	K/W

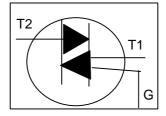
ELECTRICAL CHARACTERISTICS (T_J=25°C unless specified otherwise)

PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Gate Trigger Current	I _{GT}	V _D =12V, I _T =0.1A			
		T2+ G+		5.0	mA
		T2+ G-		5.0	mA
		T2- G-		5.0	mA
		T2- G+		10	mA

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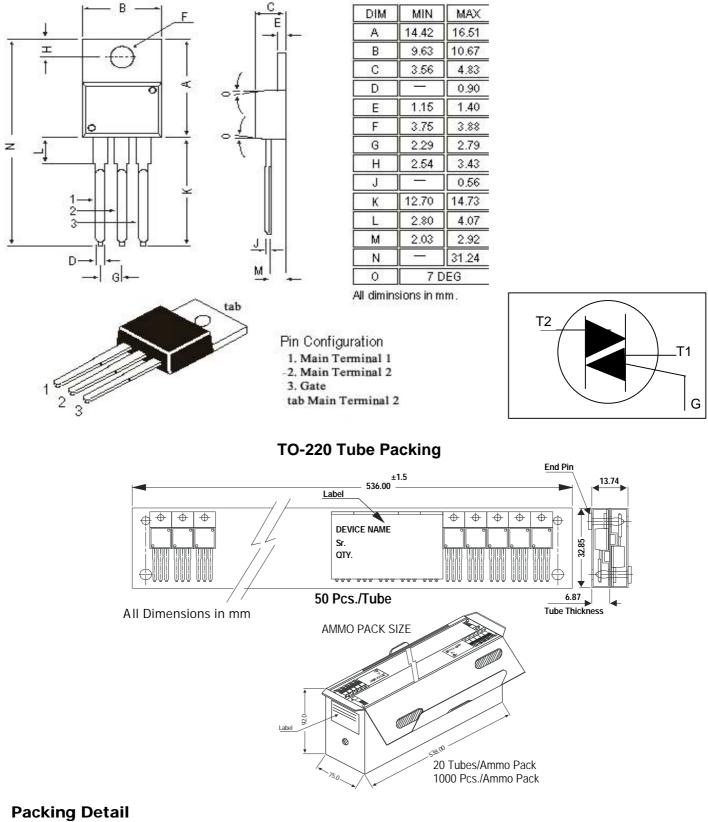
ELECTRICAL CHARACTERISTICS (T_J=25°C unless specified otherwise)

PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Latching Current	IL I	V _D =12V, I _{GT} =0.1A			
		T2+ G+		10	mA
		T2+ G-		15	mA
		T2- G-		10	mA
		T2- G+		30	mA
Holding Current	I _H	V _D =12V, I _{GT} =0.1A		10	mA
On State Voltage	V _T	I _T =5A		1.7	V
Gate Trigger Voltage	V _{GT}	V _D =12V, I _T =0.1A		1.5	V
		V _D =400V, I _T =0.1A,T _J =125°C	0.25		V
Off State Leakage Current	Ι _D	V _D = V _{DRM} =max, T _J =125°C		0.5	mA

DYNAMIC CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Critical Rate of Rise of off State Voltage d_{VD}		V_{DM} =67% V_{DRM} =max, T _J =125°C, exponential waveform, gate open circuit, R _{GK} =1K Ω		5		V/μs
Gate Controlled turn on time	t _{gt}	I _{TM} =6A, V _D =V _{DRM} max, I _G =0.1A, dI _G /dt=5A/μs		2		μs

TO-220 Plastic Package



PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220	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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