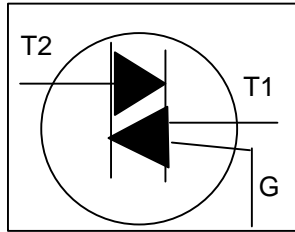
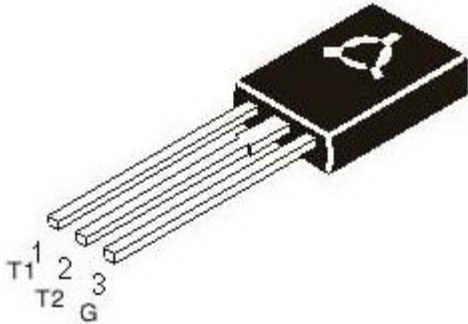


TRIAC

BT134

TO-126

Plastic Package



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

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, $T_{mb} \leq 107^\circ C$	4.0	A
Non Repetitive Peak on State Current	I_{TSM}	full sine wave, $T_J = 25^\circ C$ prior to Surge		
		$t = 20ms$	25	A
		$t = 16.7ms$	27	A
I^2t for Fusing	I^2t	$t = 10ms$	3.1	A^2s
Repetitive Rate of Rise of on State Current After Triggering	di_T/dt	$I_{TM} = 6A, I_G = 0.2A,$ $di_G/dt = 0.2A/\mu s$		
		T2+ G+	50	A/ μs
		T2+ G-	50	A/ μs
		T2- G-	50	A/ μs
		T2- G+	10	A/ μs
Peak Gate Current	I_{GM}		2.0	A
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	$^\circ C$
Operating Junction Temperature	T_j		125	$^\circ C$

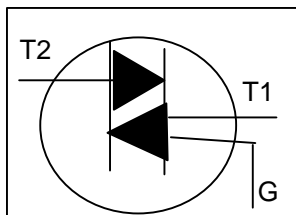
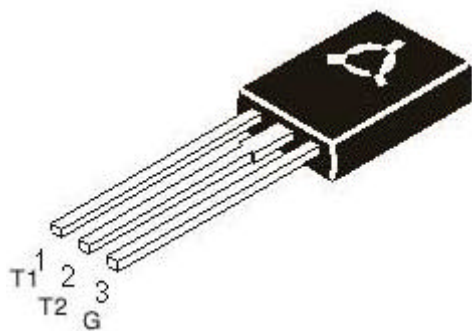
*The rate of rise of current should not exceed 3A/ms

THERMAL RESISTANCE

Junction to Mounting Base	$R_{th (j-mb)}$	full cycle	3.0	K/W
		half cycle	3.7	K/W
Junction to Ambient (typical)	$R_{th (j-a)}$	in free air	100 (Typ)	K/W

ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ C$ unless specified otherwise)

PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Gate Trigger Current	I_{GT}	$V_D = 12V, I_T = 0.1A$			
		T2+ G+		35	mA
		T2+ G-		35	mA
		T2- G-		35	mA
		T2- G+		70	mA



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

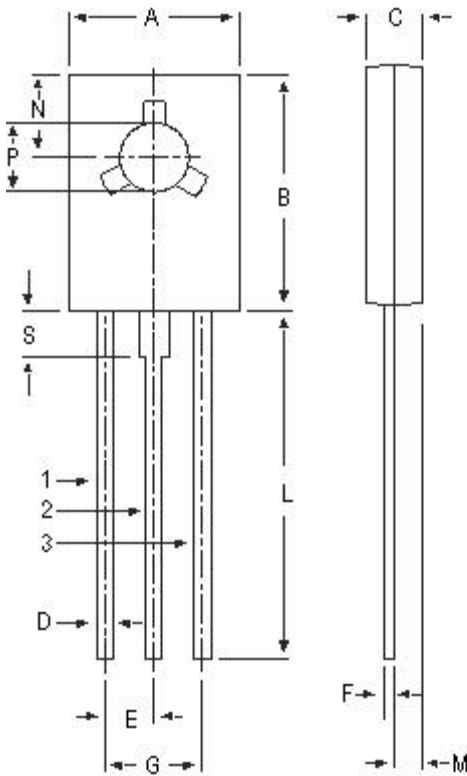
PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Latching Current	I _L	V _D =12V, I _{GT} =0.1A			
		T2+ G+		20	mA
		T2+ G-		30	mA
		T2- G-		20	mA
		T2- G+		30	mA
Holding Current	I _H	V _D =12V, I _{GT} =0.1A		15	mA
On State Voltage	V _T	I _T =5A		1.7	V
Gate Trigger Voltage	V _{GT}	V _D =12V, I _T =0.1A		1.5	V
		V _D =400V, I _T =0.1A, T _J =125°C	0.25		V
Off State Leakage Current	I _D	V _D =max, V _{DRM} =max, T _J =125°C		0.5	mA

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Critical Rate of Rise of off State Voltage	dV _D /dt	V _{DM} =67% V _{DRM} max, T _J =125°C, exponential waveform, gate open circuit	100	250		V/μs
Critical Rate of Change of Commutating Voltage	dV _{com} /dt	V _{DM} =400V, T _J =95°C, I _{T(RMS)} =4A, dI _{com} /dt=1.8A/ms, gate open circuit		50		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		2.0		μs

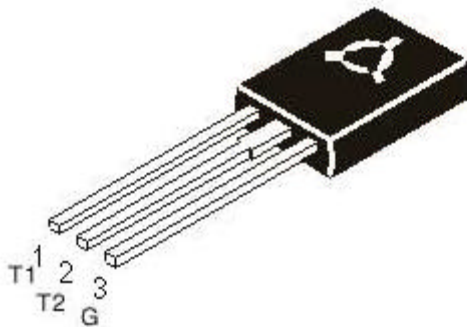
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TO-126 Plastic Package



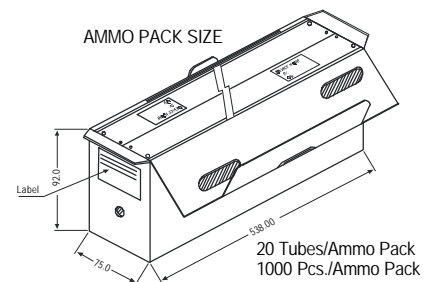
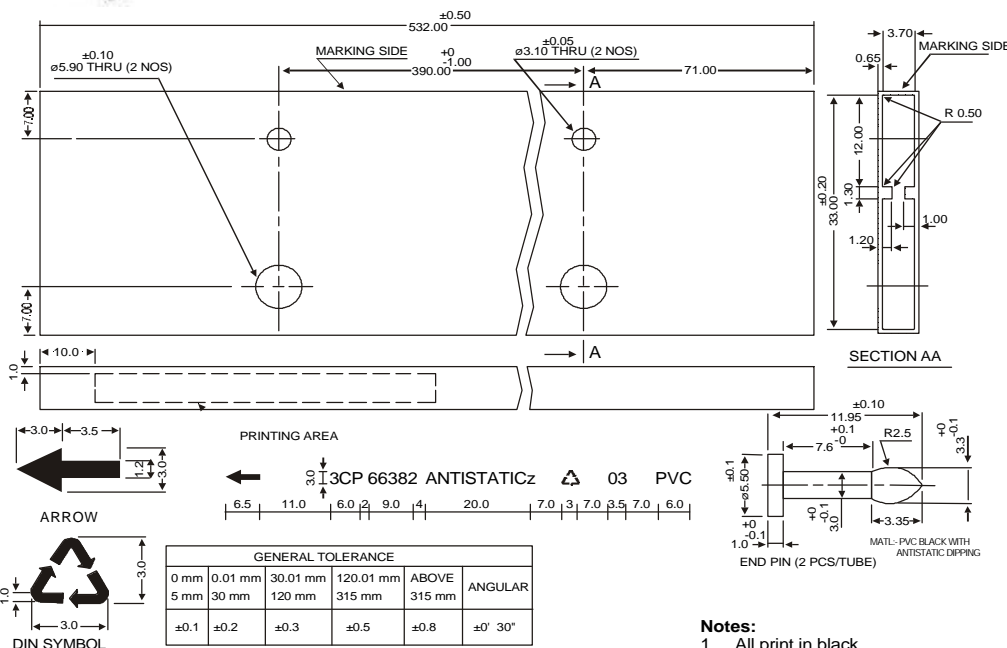
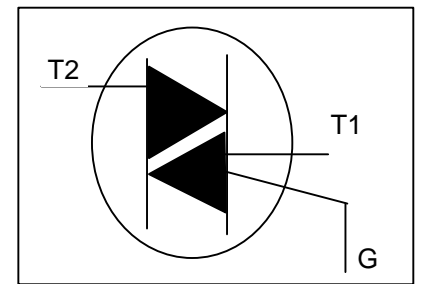
DIM	MIN	MAX
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

All dimensions in mm.



Pin Configuration

1. Main Terminal 1
2. Main Terminal 2
3. Gate



GENERAL TOLERANCE					
0 mm	0.01 mm	30.01 mm	120.01 mm	ABOVE 315 mm	ANGULAR
5 mm	30 mm	120 mm	315 mm	315 mm	
±0.1	±0.2	±0.3	±0.5	±0.8	±0° 30"

All dimensions in mm

- Notes:
1. All print in black.
 2. All text in Helvetia medium font.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

Disclaimer

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