



Features

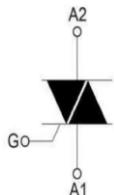
Glass passivated triacs in a plastic intended for use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.



TO-126

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BT134-600E	TO-126	Bulk	200



Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Value	Unit
V_{DRM} / V_{RRM}	repetitive peak off-state voltage		600	V
$I_{T(RMS)}$	RMS on-state current		4	A
I_{TSM}	Non repetitive surge peak on-state current	$t = 2\text{ms } T_j = 25^\circ\text{C}$	20	A
		$t = 16.7\text{ms } T_j = 25^\circ\text{C}$	16	
$I^2 t$	$I^2 t$ for fusing	$t = 10 \text{ ms}$	2	$\text{A}^2 \text{s}$
di/dt	Critical-rate of rise of commutation current	I III III IV $I_G = 2I_{GT} t_r \leq 100\text{ns}$ $F = 120\text{Hz}$	50 10	$\text{A}/\mu\text{s}$
I_{GM}	Peak Gate Current	$T_j = 125^\circ\text{C}$ $t_p = 20\mu\text{s}$	0.6	A
V_{GM}	Peak gate voltage	$T_j = 125^\circ\text{C}$	1	V
P_{GM}	Peak gate power	$T_j = 125^\circ\text{C}$	1	W
$P_{G(AV)}$	Average Gate Power Dissipation	$T_j = 125^\circ\text{C}$	0.5	W
T_j	Junction Temperature	-	-40 ~ 125	$^\circ\text{C}$
T_{stg}	Storage Temperature	-	-40 ~ 150	$^\circ\text{C}$

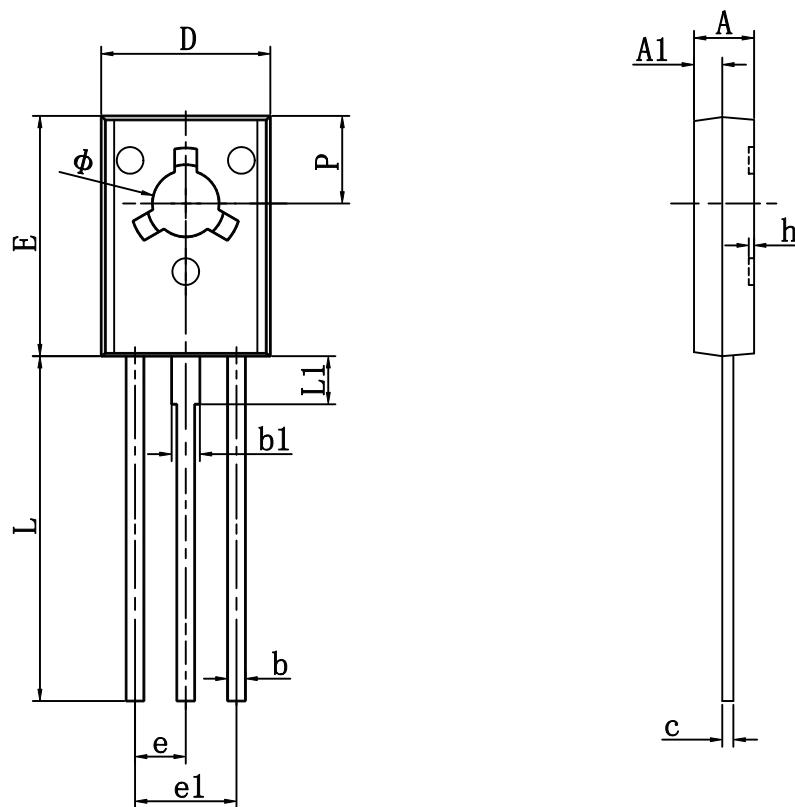


Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit	
Repetitive Peak Off-State Current Repetitive Peak Reverse Current	I_{DRM}, I_{RRM}	$V_{DRM} = V_{RRM}$	$T_j = 25^\circ C$			5	μA	
		$V_{DRM} = V_{RRM}$	$T_j = 125^\circ C$			1	mA	
Gate non-trigger voltage		V_{GD}		$V_D = 1/2 V_{DRM}$	0.2		V	
On-state voltage		V_{TM}		$I_T = 2A, t_p = 380\mu s$		1.65	V	
Gate trigger current	I	I_{GT}	$T_2(+), G(+)$	$V_D = 12V$ $R_L = 100\Omega$		3	mA	
	II		$T_2(+), G(-)$			6		
	III		$T_2(-), G(-)$			4		
	IV		$T_2(-), G(+)$			10		
Gate trigger voltage	I	V_{GT}	$T_2(+), G(+)$	$V_D = 12V$ $R_L = 100\Omega$		0.8	V	
	II		$T_2(+), G(-)$			0.8		
	III		$T_2(-), G(-)$			0.8		
	IV		$T_2(-), G(+)$			0.8		
Holding current		I_H	$V_D = 12V, I_{GT} = 100mA$			30	mA	
Critical-rate of rise of commutation voltage		dV/dt	$V_{DM} = 67\% V_{DRM}$ Gate open $T_j = 125^\circ C$			50	V/us	
Rate of change of commutating voltage		$(dI/dt)_c$	$V_{DM} = 400V$ $T_j = 125^\circ C$ $(dI/dt)_c = 5.4A/ms$ Gate open			20	V/us	
Turn-on time		t_{gt}	$I_{TM} = 16A$, $V_{DM} = V_{DRM(MAX)}$ $I_G = 0.1A, dI_G/dt = 5A/\mu s$			2	us	



TO-126 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.500	2.900	0.098	0.114
A1	1.100	1.500	0.043	0.059
b	0.660	0.860	0.026	0.034
b1	1.170	1.370	0.046	0.054
c	0.450	0.600	0.018	0.024
D	7.400	7.800	0.291	0.307
E	10.600	11.000	0.417	0.433
e	2.290 TYP		0.090 TYP	
e1	4.480	4.680	0.176	0.184
h	0.000	0.300	0.000	0.012
L	15.300	15.700	0.602	0.618
L1	2.100	2.300	0.083	0.091
P	3.900	4.100	0.154	0.161
Φ	3.000	3.200	0.118	0.126



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