

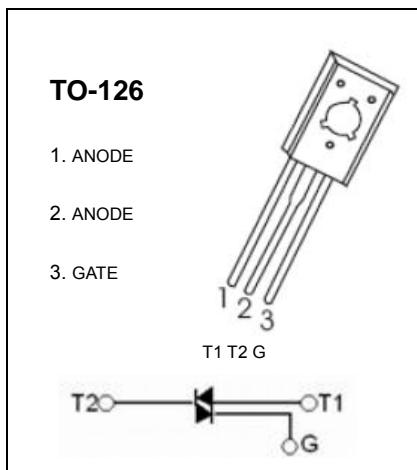
TO-126 Plastic-Encapsulate Thyristors

BT134 TRIAC

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.



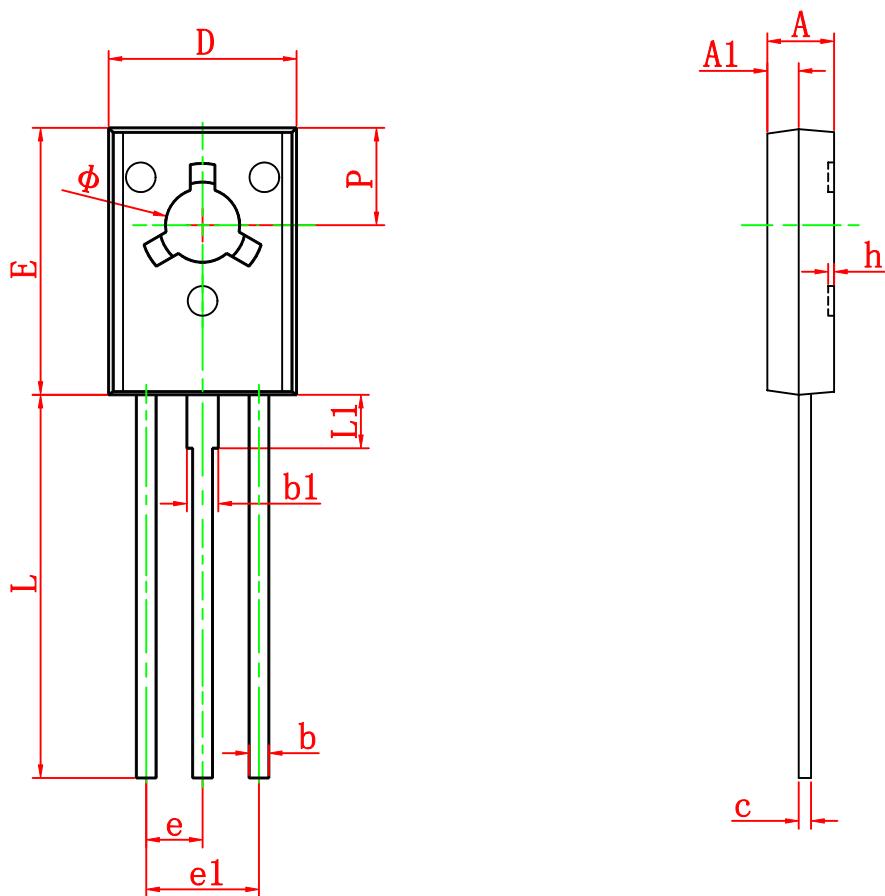
MAXIMUM RATINGS($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test conditions	Value	Unit
V_{DRM}/V_{RRM}	Repetitive peak off-state/reverse voltages		600	V
$I_T(\text{RMS})$	RMS on-state current Non-repetitive peak on-state current	full sine wave ; $T_{mb} \leq 107^\circ\text{C}$	4	A
I^2t	I^2t for fusing	$t=10\text{ms}$	3.1	A^2s
dI_t/dt	Repetitive rate of rise of on-state current after triggering	$dI_G/dt=0.2\text{A/us}$		
		$T2+G+$	50	A/us
		$T2+G-$	50	A/us
		$T2-G-$	50	A/us
		$T2-G+$	10	A/us
I_{GM}	Peak gate current		2	A
V_{GM}	Peak gate voltage		5	V
P_{GM}	Peak gate power		5	W
$P_{G(AV)}$	Average gate power	over any 20 ms period	0.5	W
T_{stg}	Storage Temperature		-40~150	$^\circ\text{C}$
T_j	Operating junction Temperature		125	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Rated repetitive peak off-state current	I_{DRM}	$V_D=V_{DRM}$			10	μA
On-state voltage	V_{TM}	$I_T=3A$		1.4	1.7	V
Gate trigger current	I_{GT}	$T_2(+), G(+)$	$V_D=12V$		7	mA
		$T_2(+), G(-)$			7	mA
		$T_2(-), G(-)$			7	mA
		$T_2(-), G(+)$			20	mA
Gate trigger voltage	V_{GT}	$T_2(+), G(+)$	$V_D=12V$		1.45	V
		$T_2(+), G(-)$			1.45	V
		$T_2(-), G(-)$			1.45	V
		$T_2(-), G(+)$			2	V
Holding current	I_H	$I_T=100mA \quad I_O=20mA$			15	mA
Thermal Resistance Junction to mounting base	$R_{th\ j-mb}$	full cycle			3.0	K/W
		half cycle			3.7	K/W
Thermal Resistance Junction to ambient	$R_{th\ j-a}$	In free air		60		K/W

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