



POWER SKY (H.K.) LTD.

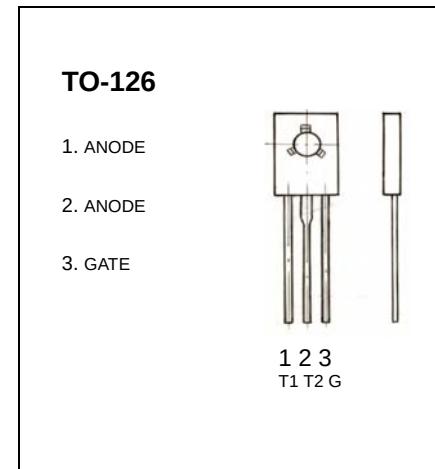
TO-126 Plastic-Encapsulate Thyristor

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	CONDITIONS	Value	Units
V_{DRM}	Repetitive peak off-state voltages		600	V
$I_{\text{T(RMS)}}$	RMS on-state current Non-repetitive peak on-state current	full sine wave ; $T_{\text{mb}} \leq 107^{\circ}\text{C}$	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 tiggering	$di_{\text{G}}/dt=0.2\text{A/us}$		
		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
$P_{\text{G(AV)}}$	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_{amb}=25°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	μ A
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(-)	R _L =100 Ω			7	mA
			T ₂ (-), G(+)				20	mA
Gate trigger voltage		V _{GT}	T ₂ (+), G(+)	V _D =12V			1.45	mA
			T ₂ (+), G(-)				1.45	mA
			T ₂ (-), G(-)	R _L =100 Ω			1.45	mA
			T ₂ (-), G(+)				2	mA
Holding current		I _H	I _T =100mA I _G =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

Typical Characteristics

