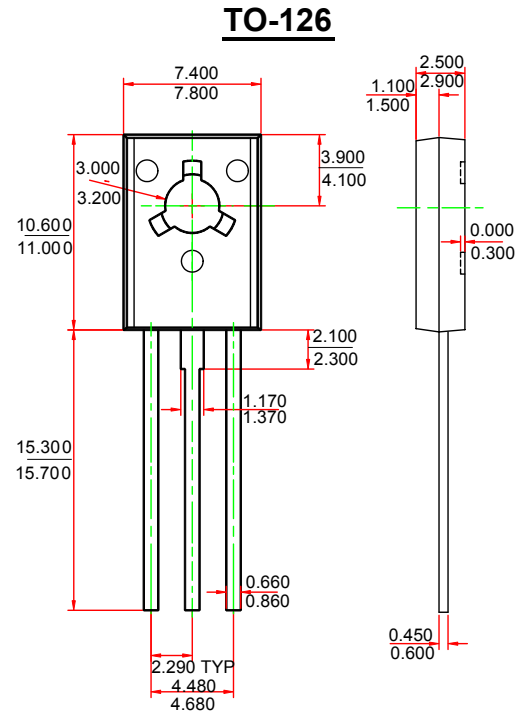


- 1. ANODE
- 2. ANODE
- 3. GATE

## 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.



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS\* $T_A=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	CONDITIONS	Value	Units
$V_{\text{DRM}}$	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	$\text{A}^2\text{s}$
$di_{\text{T}}/dt$	Repetitive rate of rise of on-state current after triggering	$di_{\text{G}}/dt=0.2\text{A}/\mu\text{s}$		
		T2+G+	50	A/ $\mu\text{s}$
		T2+G-	50	A/ $\mu\text{s}$
		T2-G-	50	A/ $\mu\text{s}$
		T2-G+	10	A/ $\mu\text{s}$
$I_{\text{GM}}$	Peak gate current		2	A
$V_{\text{GM}}$	Peak gate voltage		5	V
$P_{\text{GM}}$	Peak gate power		5	W
$P_{\text{G(AV)}}$	Average gate power	over any 20 ms period	0.5	W
$T_{\text{stg}}$	Storage Temperature		-40-150	$^{\circ}\text{C}$
$T_{\text{J}}$	Operating junction Temperature		125	$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS(T<sub>amb</sub>=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Rated repetitive peak off-state current	I <sub>DRM</sub>	V <sub>D</sub> =V <sub>DRM</sub>			10	μ A
On-state voltage	V <sub>TM</sub>	I <sub>T</sub> =3A		1.4	1.7	V
Gate trigger current	I <sub>GT</sub>	T <sub>2</sub> (+), G(+)	V <sub>D</sub> =12V		7	mA
		T <sub>2</sub> (+), G(-)			7	mA
		T <sub>2</sub> (-), G(-)	R <sub>L</sub> =100 Ω		7	mA
		T <sub>2</sub> (-), G(+)			20	mA
Gate trigger voltage	V <sub>GT</sub>	T <sub>2</sub> (+), G(+)	V <sub>D</sub> =12V		1.45	mA
		T <sub>2</sub> (+), G(-)			1.45	mA
		T <sub>2</sub> (-), G(-)	R <sub>L</sub> =100 Ω		1.45	mA
		T <sub>2</sub> (-), G(+)			2	mA
Holding current	I <sub>H</sub>	I <sub>T</sub> =100mA I <sub>G</sub> =20mA			15	mA
Thermal Resistance Junction to mounting base	R <sub>th j-mb</sub>	full cycle			3.0	k/W
		half cycle			3.7	K/w
Thermal Resistance Junction to ambient	R <sub>th j-a</sub>	In free air		60		K/w

## Typical Characteristics

