

Rev.E Mar.-2016

TO-92 Triac in a TO-92 Plastic Package.

Sensitive Gate Triggering in Four Trigger Modes fo

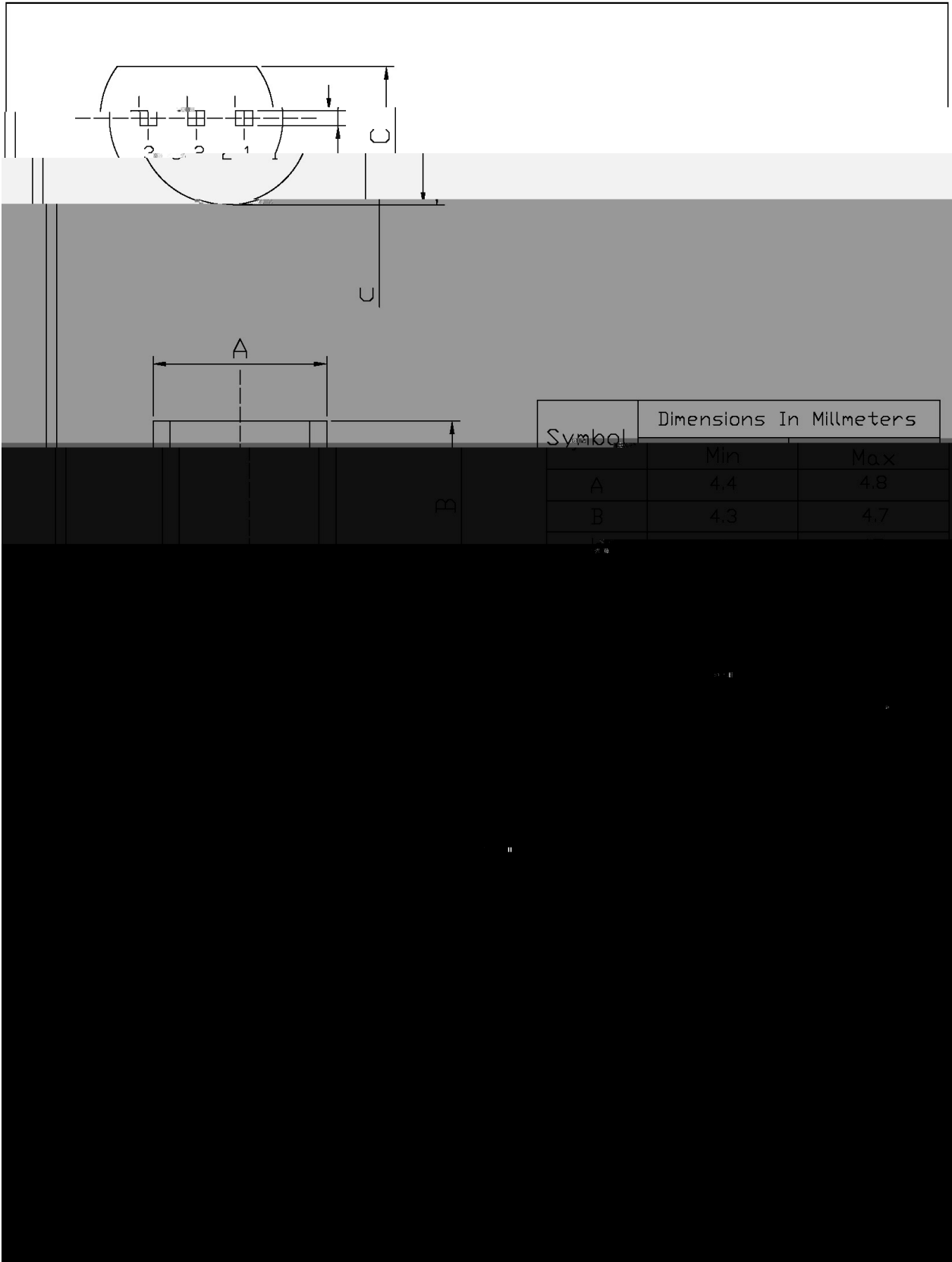
Parameter		Symbol	Rating	Unit
Repetitive peak off-state voltages		V _{DRM}	400	V
RMS on-state current		I _{T(RMS)}	0.6	A
Non-repetitive peak on-state current		I _{TSM(t=20ms)}	8.0	A
Non-repetitive peak on-state current		I _{TSM(t=16.7ms)}	8.8	A
I ² _t for fusing		I ² t _(t=10ms)	0.32	A ² S
Repetitive rate of rise of on-state current after triggering I _{TM} =1A, I _G =0.2A, dI _G /dt=0.2A/ s	dI _T /dt	T2+ G+	50	A/ S
		T2+ G-	50	
		T2- G-	50	
		T2- G+	10	
Peak gate current		I _{GM(t=2 smax)}	1.0	A
Peak gate voltages		V _{GM(t=2 smax)}	5.0	V
Peak gate power		P _{GM(t=2 smax)}	5.0	W
Average gate power		P _{G(AV)} (Tcase=80 t=2 smax)	0.1	W
Junction Temperature		T _j	-40 125	
Storage Temperature Range		T _{stg}	-40 150	

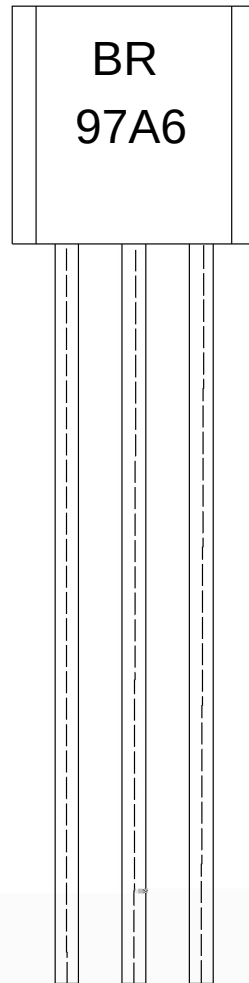
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Gate trigger current	I_{GT}	$V_{\text{D}}=12\text{V}$, $I_{\text{T}}=0.1\text{A}$	T2+G+		1.0	5.0	mA
			T2+G-		2.0	5.0	
			T2-G-		2.0	5.0	
			T2-G+		4.0	7.0	
Latching current	I_{L}	$V_{\text{D}}=12\text{V}$; $I_{\text{GT}}=0.1\text{A}$	T2+G+		1.0	10	mA
			T2+G-		5.0	10	
			T2-G-		1.0	10	
			T2-G+		2.0	10	
Holding current	I_{H}	$V_{\text{D}}=12\text{V}$	$I_{\text{GT}}=0.1\text{A}$		1.0	10	mA
On-state voltage	V_{T}	$I_{\text{T}}=0.85\text{A}$			1.4	1.9	V

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate trigger voltage	V_{GT}	$V_D=12V$ $I_T=0.1A$		0.9	2.0	V
		$V_D=V_{DRM}$ $I_T=0.1A$ $T_J=110$	0.1	0.7		
Off-state leakage current	I_D	$V_D=V_{DRM(max)}$ $T_J=110$		3.0	100	A
Gate Controlled Turn-On Time	tgt	$I_{TM}=1.0A$ $V_D=V_{DRM}$ $I_G=25mA, dI_G/dt=5A/s$		2.0		s
Critical Rate-of-Rise of Commutation Voltage	dV_D/dt	$V_D=67\%$ of $V_{DM(max)}$, $T_{case}=110$ exponential waveform gate open circuit	30	45		V/ s
Critical Rate-of-Rise of Off State Voltage	dV_{com}/dt	$V_D=rated V_{DRM}$, $T_{case}=50$ $I_{TM}=0.84A$ Commutating $dI/dt=0.3A/ms$		5.0		V/ s
Critical rate of rise of off-state current	I_{DRM}	$V_D=Rated V_{DRM}$ $T_J=110$			0.1	mA
Repetitive peak off-state current	I_{RRM}	Gate Open			0.1	mA

T0-92

Unit: mm





BR

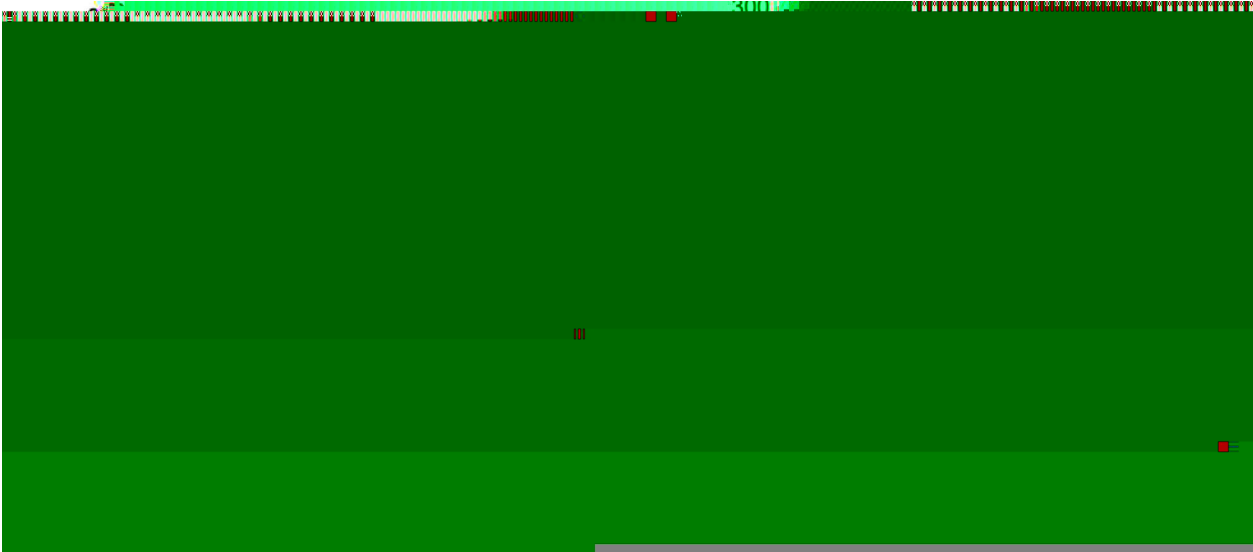
97A6

Note:

BR: Company Code.

97A6: Product Type.

****: Lot No. Code, code change with Lot No.



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只 纸带	纸带 盒	纸带层 盒	盒 箱	只 箱	盒	箱
							小箱 , 大箱