PSTTR02 Senstive Thyristor

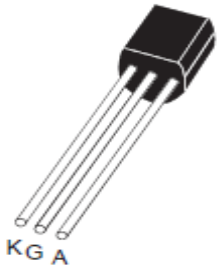
■ Features

● $I_{T(AV)}$:0.8A ● I_{GT}：200μA ● Glass Passivation Type ● Non-Insulated Type

■ Applications

●Leakage protector, timer, and gas igniter ● Temperate controller

■ Outline



TO-92

■ Maximum Ratings（T_a=25℃）

Parameter	Symbol	Voltage class		Unit
		-6	-8	
Repetitive peak reverse voltage	V_{RRM}	600	800	V
Repetitive peak off-state voltage	V_{DRM}	600	800	V
RMS on-state current	$I_{T(RMS)}$	1.25		A
Average on-state current	$I_{T(AV)}$	0.8		A
Surge on-state current	I_{TSM}	22.5		A
I^2t for fusing	I^2t	2.5		A^2s
Average gate power dissipation	$P_{G(AV)}$	0.2		W
Peak gate reverse voltage	V_{RGM}	8		V
Peak gate forward current	I_{FGM}	1.2		A
Junction temperature	Tj	– 40 to +125		°C
Storage temperature	Tstg	– 40 to +150		°C

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■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions
Repetitive peak reverse current	I_{RRM}	—	—	0.5	mA	Tj = 125°C, V_{RRM} applied
Repetitive peak off-state current	I_{DRM}	—	—	0.5	mA	Tj = 125°C, V_{DRM} applied, R_{GK} = 1 kΛ
On-state voltage	V_{TM}	—	—	1.45	V	Ta = 25°C, I_{TM} = 2.5A
Gate trigger voltage	V_{GT}	—	—	0.8	V	Tj = 25°C, V_D = 12 V, R_L = 140Λ
Gate non-trigger voltage	V_{GD}	0.1	—	—	V	Tj = 125°C, V_D = V_{DRM},R_{GK} = 1 kΛ
Gate trigger current	I_{GT}	20	—	200	μA	Tj = 25°C, V_D = 12 V, R_L = 140Λ
Holding current	I_H	—	—	5	mA	Tj = 25°C, V_D = 12 V,R_{GK} = 1 kΛ
Thermal resistance	$R_{th\ (j-a)}$	—	—	150	°C/W	Junction to ambient

■ Trigger Current Item

Item	A	B	C	D	E	F
I_{GT} (μA)	20 to 50	40 to 80	70 to 100	20 to 80	20 to 100	100 to 200

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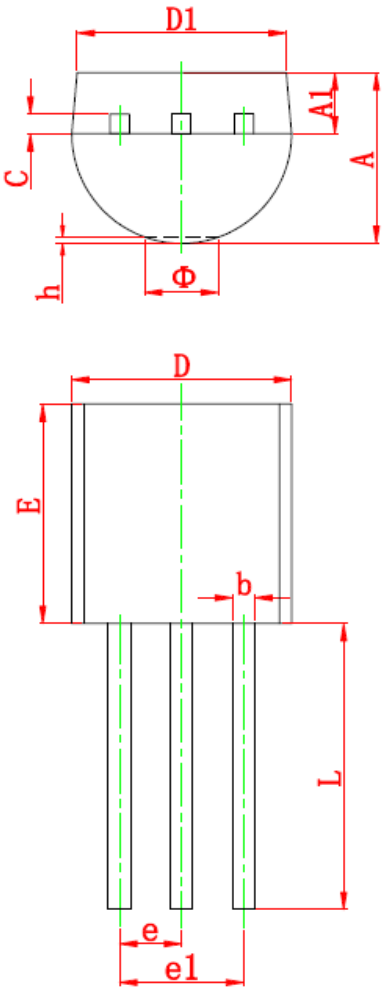
■ TO-92 Package Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

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