

### **Features**

- Blocking voltage to 600 V
- RMS on-state current to 0.6 A
- General purpose bidirectional switching



TO-92

# Maximum Ratings (Ta=25°C unless otherwise noted)

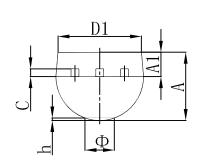
Symbol	Parameter	Conditions	Value	Unit
V <sub>DRM</sub> /V <sub>RRM</sub>	repetitive peak off-state voltage	T <sub>j</sub> = 25 to125°C	600	٧
I <sub>GM</sub>	gate current(peak value)	t = 2µs max	1	Α
$V_{GM}$	gate voltage(peak value)	t = 2µs max	5	>
$P_{GM}$	gate power(peak value)	t = 2µs max	5	W
Tj	Junction Temperature	-	-40 ~ 125	ç
T <sub>stg</sub>	Storage Temperature	-	-40 ~ 150	ç

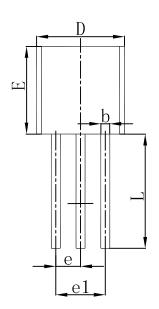
### Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions		Min	Max	Unit
Rated repetitive peak off-state/reverse voltage		V <sub>DRM</sub> ,V <sub>RRM</sub>	I <sub>D</sub> =10μA		600		V
Rated repetitive peak off-state current		I <sub>DRM</sub>	V <sub>D</sub> =V <sub>DRM</sub>			10	μA
On-state voltage		V <sub>TM</sub>	I <sub>T</sub> =1A,I <sub>G</sub> =50mA			1.9	V
	I	- I <sub>GT</sub>	T <sub>2</sub> (+), G(+)	$V_D=12V$ $R_L=100\Omega$		5	mA
Gate trigger current	Ш		T <sub>2</sub> (+), G(-)			5	mA
Gate trigger current	Ш		T <sub>2</sub> (-), G(-)			5	mA
	IV		T <sub>2</sub> (-), G(+)			-	mA
	I	V <sub>GT</sub>	T <sub>2</sub> (+), G(+)	$V_D=12V$ $R_L=100\Omega$		1.5	V
Gate trigger voltage	П		T <sub>2</sub> (+), G(-)			1.5	V
Gate trigger voltage	III		T <sub>2</sub> (-), G(-)		1.5	V	
	IV		T <sub>2</sub> (-), G(+)			-	V
Holding current		I <sub>H</sub>	I <sub>T</sub> =600mA ,I <sub>G</sub> =20mA			10	mA



# **TO-92 Package Outline Dimensions**





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	0.360	0.510	0.014	0.020	
D	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
E	4.300	4.700	0.169	0.185	
е	1.270	TYP	0.050 TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	



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