
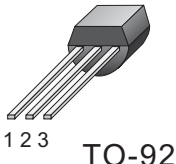


#### Description

Passivated, sensitive gate triacs in a plastic envelope, intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all four quadrants.

<p>Symbol</p> 		<p>Simplified outline</p> 
Pin	Description	
1	Main terminal 1(T1)	
2	Gate	
3	Main terminal 2 (T2)	

#### Applications:

- ◆ Motor control
- ◆ Industrial and domestic lighting
- ◆ Heating
- ◆ Static switching

#### Features

- ◆ Blocking voltage to 600 V
- ◆ On-state RMS current to 2 A

SYMBOL	PARAMETER	Value	Unit
$V_{DRM}$	Repetitive peak off-state voltages	600	V
$I_T (RMS)$	RMS on-state current	2	A
$I_{TSM}$	Non-repetitive peak on-state current	10	A

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$R_{th(j-mb)}$	Thermal resistance, Junction to mounting base	Full cycle	-	-	60	K/W
		Half cycle	-	-	80	K/W
$R_{th(j-a)}$	Thermal resistance, Junction to Ambient	Pcb mounted; lead length=4mm	-	150	-	K/W

Limiting values in accordance with the Maximum system(IEC 134)

SYMBOL	PARAMETER	CONDITIONS	MIN	Value	UNIT
$V_{DRM}$	Repetitive peak off-state Voltages		-	600	V
$I_{T(RMS)}$	RMS on-state current	full sine wave; $T_{lead} \leq 50^{\circ}C$	-	2	A
$I_{TSM}$	Non-repetitive peak on-state current	full sine wave; half sine wave	- -	10 12	A
$P_{G(AV)}$	Average gate power	Over any 20 ms period	-	0.3	W
$I_{GM}$	Peak gate current		-	0.2	A
$T_L$	Lead temperature 1.6mm from case for 10 seconds		-	230	$^{\circ}C$
$T_{stg}$	Storage temperature range		-40	150	$^{\circ}C$
$T_c$	Operating case Temperature range		-40	110	$^{\circ}C$

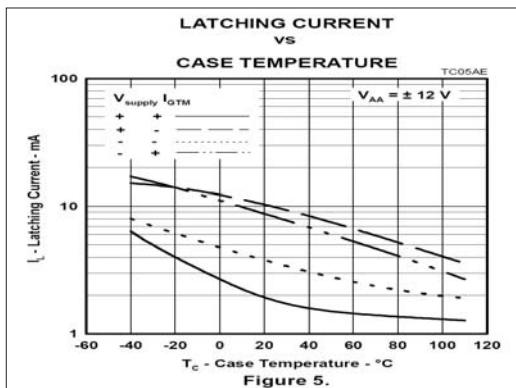
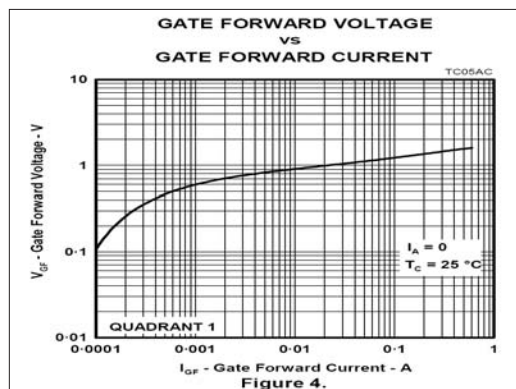
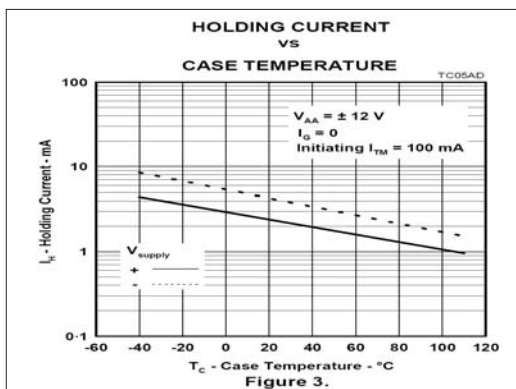
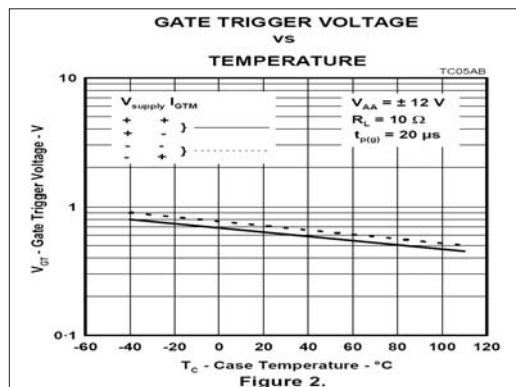
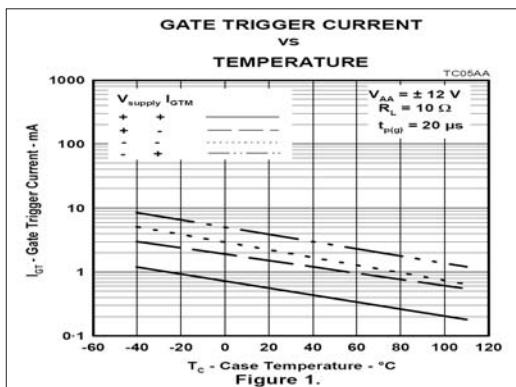
$T_j=25^{\circ}C$  unless otherwise stated

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Static characteristics						
$I_{GT}$	Gate trigger current	$V_D=12V$ ; $I_T=0.1A$	-	-	8 10	mA
$V_{GT}$	Latching current	$V_D=12V$ ; $I_T=0.1A$ $V_D=400V$ ; $I_T=0.1A$ ; $T_j=150^{\circ}C$	-	-	2.5	V
$I_H$	Holding current	$V_D=12V$ ; $I_{GT}=0.1A$	-	-	30	mA
$I_L$	Latching current	$V_D=12V$ ; $I_{GT}=0.1A$	-	-	40	mA

#### Dynamic Characteristics

$V_{TM}$	Peak on-state voltage	$I_{TM}=2.0A$	-	-	2.2	V
$I_{DRM}$	Repetitive peak off-state current	$V_D=ratedV_{DRM}$ $I_G=0$	-	-	$\pm 20$	$\mu A$

#### Description



#### MECHANICAL DATA

Dimensions in mm

Net Mass: 0.2 g

TO-92

REF.	DIMENSIONS					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A		1.35			0.053	
B			4.70			0.185
C		2.54			0.100	
D	4.40			0.173		
E	12.70			0.500		
F			3.70			0.146
a			0.50			0.019

