
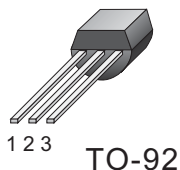


HAOPIN MICROELECTRONICS CO.,LTD.

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.

Symbol		Simplified outline	
			
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

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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	$^{\circ}C$

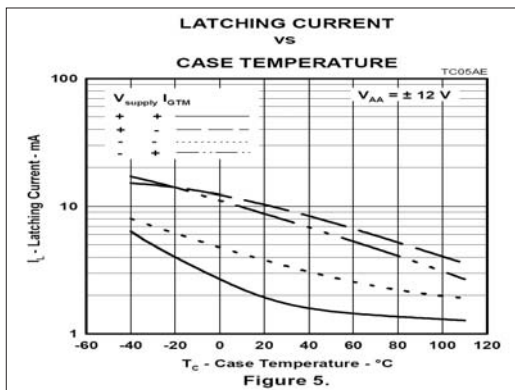
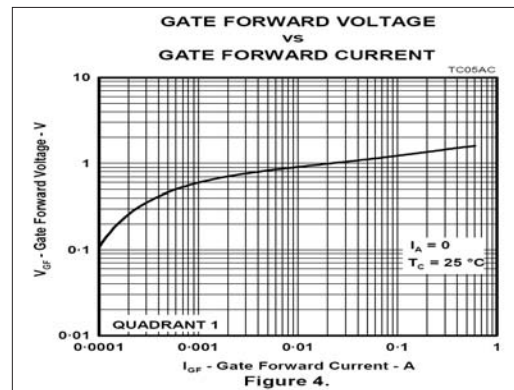
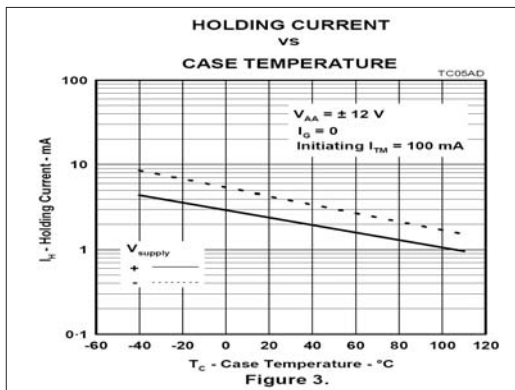
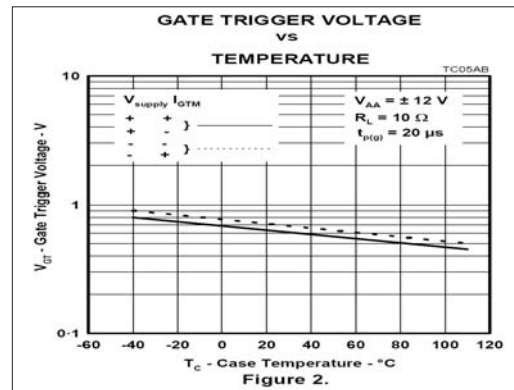
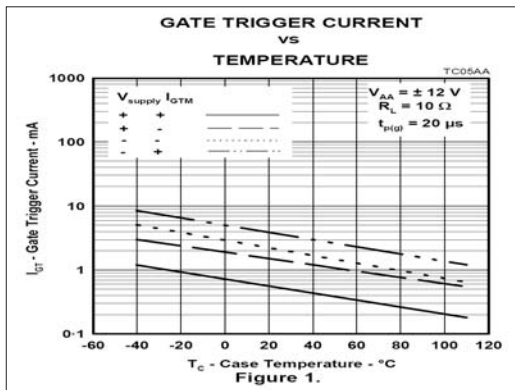
$T_j=25^{\circ}C$ unless otherwise stated

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	$V_D=ratedV_{DRM} \quad I_G=0$	-	-	± 20	μA

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

