

TC Series

Photo Triac

Features

- Compact DIP8 Pin Package
- High Isolation Voltage 5000VAC between input and output
- 600VDC peak blocking Voltage
- Be suitable for 110/220VAC power voltage
- Random-on & Zero-on types are available

Applications

- Power TRIAC driver
- Household appliance
- Solid State Relay



Order Code:

TC 2 09 R - 7
a b c d e

a : Model : TC=DIP 8 Pin Package Type
b : Output Voltage : 2 = 240VAC
c : Output Current : 09 = 0.9Amp ; 12 = 1.2Amp
d : Turn on Type : Nil = Zero-on ; R = Random - on
e : Option : Nil = DIP Type ; 7 = SMD Type

Absolute Maximum Rating:

Item	Symbol	Rating		Unit	
		TC209(R)	TC212(R)		
Input	Forward Current	I_F	50	mA	
	Peak Forward Current	I_{FP}	1	A	
	Reverse Voltage	V_R	6	V	
Output	Off-state Output Voltage	V_{DRM}	600	VDC	
	On-state Output Current	$I_{R(RMS)}$	0.9	1.2	A
	Non-repetitive Sotjge Current	I_{RSM}	9	12	A
I/O Isolation Voltage	V_{iso}	5000		VAC	
Operating Temperature	T_{opr}	-30~+85		°C	
Storage Temperature	T_{stg}	-40~+125		°C	

Electrical Characteristics:

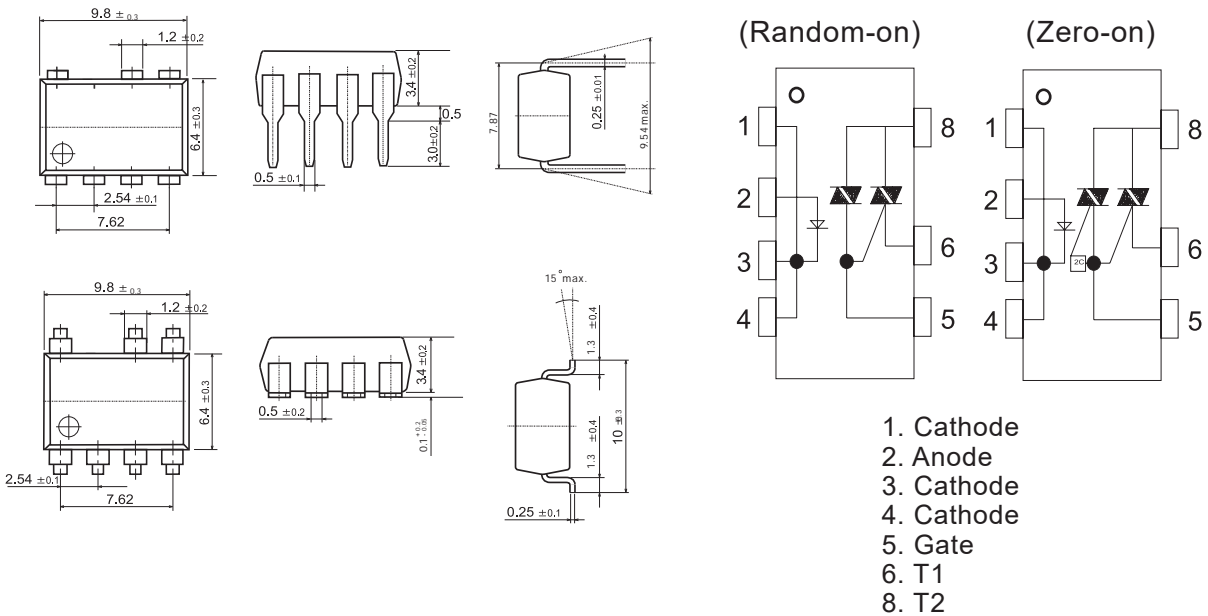
Item	Symbol	MIN.	Rating		MAX.	Unit	Conditions
			TC209(R)	TC212(R)			
Input	Forward Voltage	V_F	-	1.18	1.4	V	$I_F=10mA$
	Reverse Current	I_R	-	-	10	μA	$V_R=6V$
Output	Peak Leakage Current	I_{DRM}	-	-	100	μA	$V_{DRM}=600V$
	On-state Voltage	V_{TM}	-	1.3	1.1	V	$I_R=Rated I_R$
	Hold Current	I_H	-	-	25	mA	$V_D=6V$
	Rise rate of off-state	dv/dt	200	1000	-	$V/\mu S$	$V_{DRM}=600V/\sqrt{2}$
Minimum trigger current	I_{FT}	-	2	10	mA	$V_D=6V$	
Recovery Input Voltage	$V_{F OFF}$	0.5	-	-	V		
I/O Isolation Resistance	R_{iso}	50G	-	-	-		DC=500V
Turn-on Time (Random-on)	T_{ON}	-	8	100	μS		$I_F=20mA$
Turn-on Time (Zero-on)	T_{ON}	-	-	10	mS		-
Turn-off Time	T_{OFF}	-	-	10	mS		-

為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

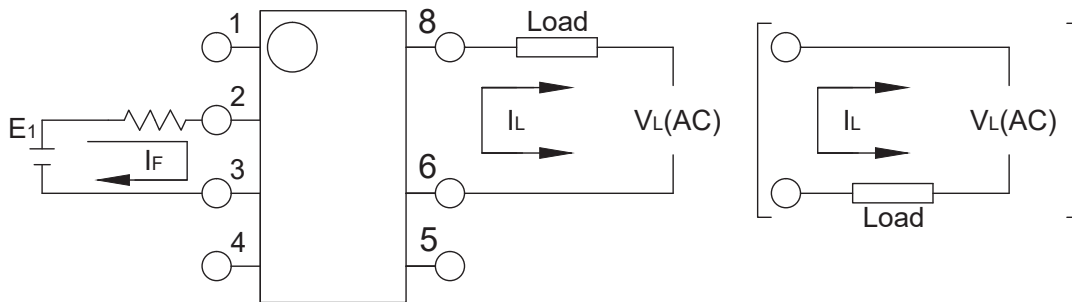
Note: Recommended trigger current is between 10mA and 20mA

In the interest of continuous development, our companies reserve the right to alter designs within specification range.

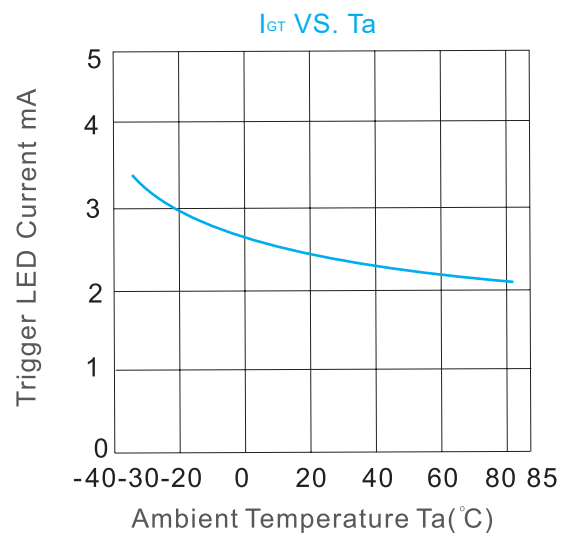
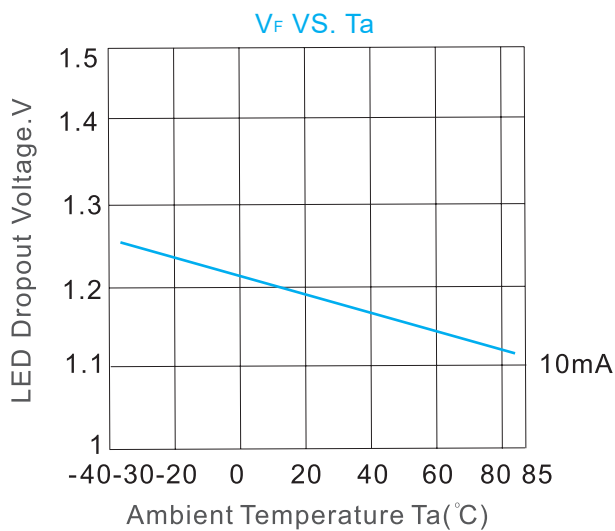
Dimensions : (Unit : mm)



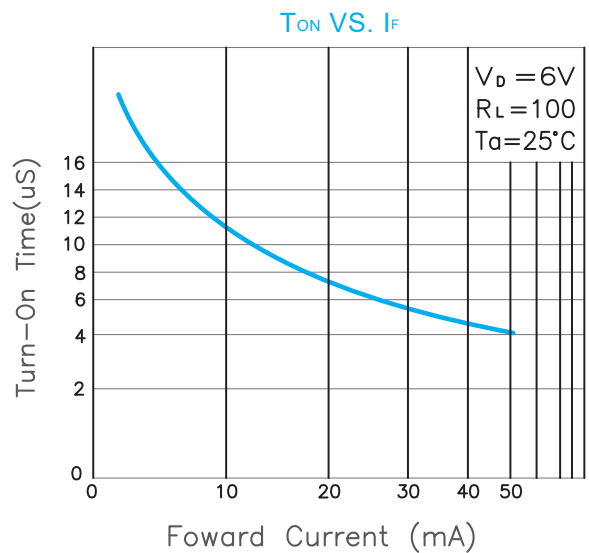
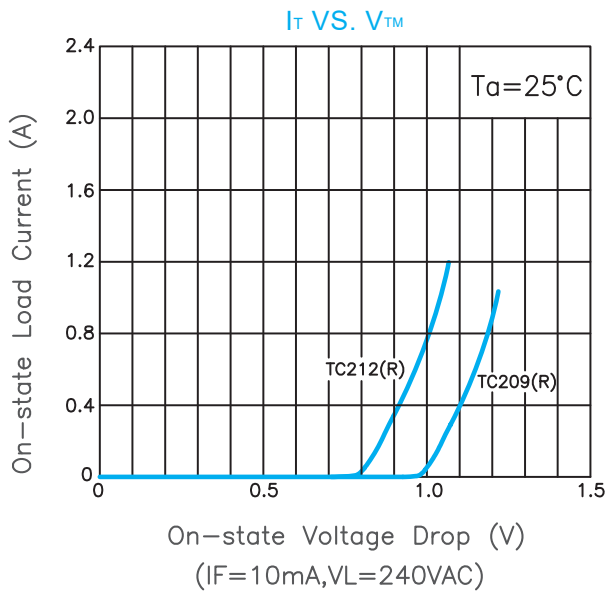
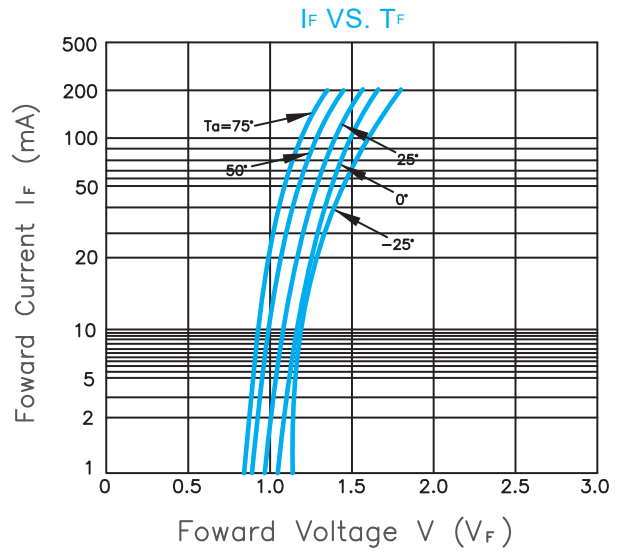
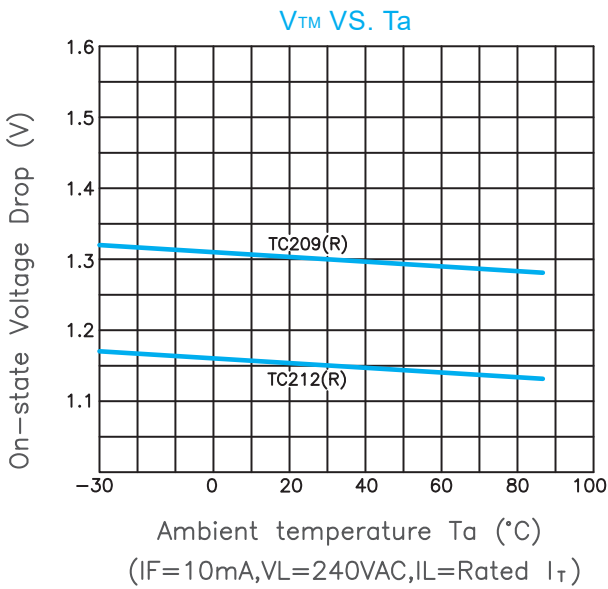
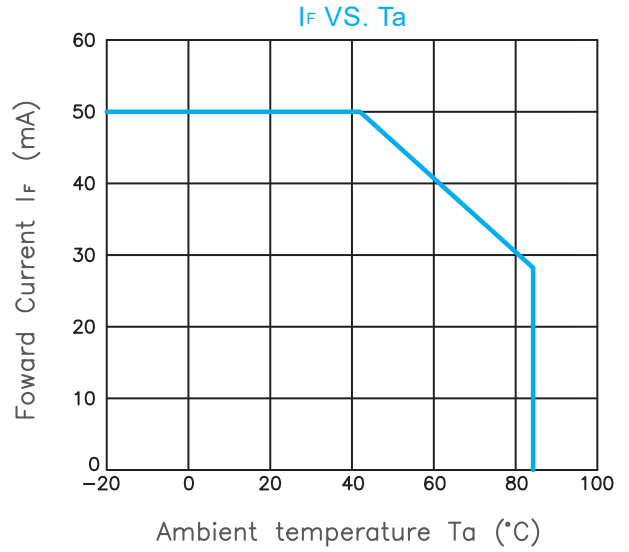
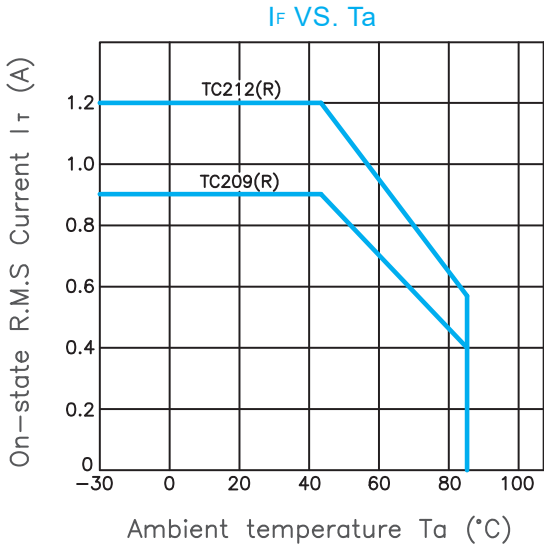
Wiring Diagram



REFERENCE DATA :



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