

TRIAC(Surface Mount Device / Non-isolated)**TMG10C60H**

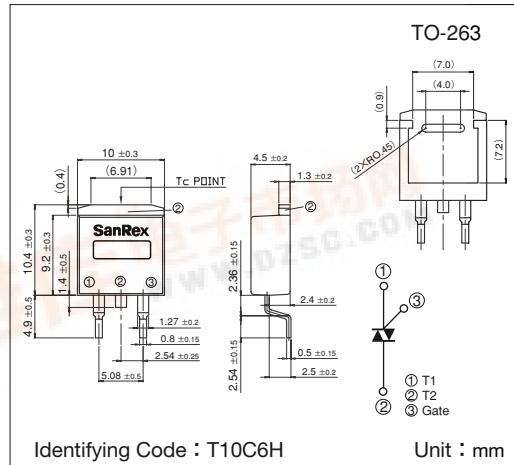
SanRex Triac TMG10C60H is designed for full wave AC control applications. It can be used as an ON/OFF function or for phase control operation.

Typical Applications

- Home Appliances : Washing Machines, Vacuum Cleaners, Rice Cookers, Micro Wave Ovens, Hair Dryers, other control applications
- Industrial Use : SMPS, Copier Machines, Motor Controls, Dimmer, SSR, Heater Controls, Vending Machines, other control applications

Features

- $I_{T(RMS)}=10A$
- High Surge Current
- Low Voltage Drop
- Lead-Free Package



Identifying Code : T10C6H

Unit : mm

Maximum Ratings(T_j=25°C unless otherwise specified)

Symbol	Item	Reference	Ratings	Unit
V _{DRM}	Repetitive Peak Off-State Voltage		600	V
I _{T(RMS)}	R.M.S. On-State Current	T _c =103°C	10	A
I _{SM}	Surge On-State Current	One cycle, 50Hz/60Hz, Peak value non-repetitive	100/110	A
I ² t	I ² t (for fusing)		50	A ² S
P _{GM}	Peak Gate Power Dissipation		5	W
P _{G(AV)}	Average Gate Power Dissipation		0.5	W
I _{GM}	Peak Gate Current		2	A
V _{GM}	Peak Gate Voltage		10	V
T _j	Operating Junction Temperature		-40~+125	°C
T _{stg}	Storage Temperature		-40~+150	°C
	Mass		1.2	g

Electrical Characteristics

Symbol	Item	Reference	Ratings			Unit
			Min.	Typ.	Max.	
I _{DRM}	Repetitive Peak Off-State Current	V _D =V _{DRM} , Single phase, half wave, T _j =125°C			2	mA
V _{TM}	Peak On-State Voltage	I _T =15A, Inst. measurement			1.4	V
I _{GT1} ⁺ 1	Gate Trigger Current	V _D =6V, R _L =10Ω			30	mA
I _{GT1} ⁻ 2					30	
I _{GT3} ⁺ 3					—	
I _{GT3} ⁻ 4					30	
V _{GT1} ⁺ 1	Gate Trigger Voltage				1.5	V
V _{GT1} ⁻ 2					1.5	
V _{GT3} ⁺ 3					—	
V _{GT3} ⁻ 4					1.5	
V _{GD}	Non-Trigger Gate Voltage	T _j =125°C, V _D =1/2V _{DRM}	0.2			V
[dv/dt] _C	Critical Rate of Rise of Off-State Voltage at Commutation	T _j =125°C, [di/dt] _C =-5A/ms, V _D =2/3V _{DRM}	10			V/μs
I _H	Holding Current			20		mA
R _{th}	Thermal Resistance	Junction to case			1.8	°C/W

Trigger mode of the triac

