

TRIAC(Through Hole / Non-isolated)**TMG16D60L****(Sensitive Gate)**

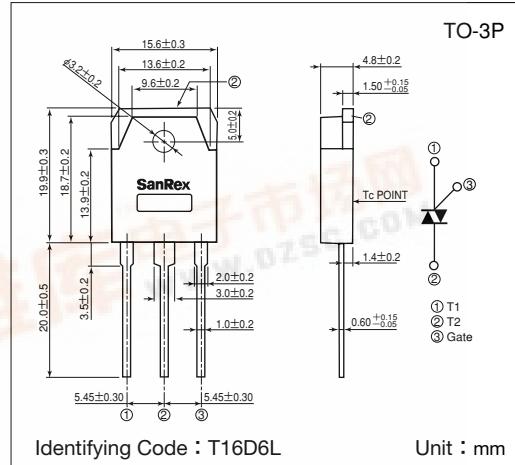
SanRex Triac TMG16D60L is designed for full wave AC control applications. It can be used as an ON/OFF function or for phase control operation.

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

- $I_{T(RMS)}=16A$
- High Surge Current
- Low Voltage Drop
- Lead-Free Package

**■ 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 =100°C	16		A
I _{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, Peak value non-repetitive	155/170		A
I ² t	I ² t (for fusing)		120		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		5.1		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 =25A, Inst. measurement			1.4	V
I _{GT1} ⁺ 1	Gate Trigger Current	V _D =6V, R _L =10Ω			10	mA
I _{GT1} ⁻ 2					10	
I _{GT3} ⁺ 3					—	
I _{GT3} ⁻ 4					10	
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, [dv/dt] _c =-8A/ms, V _D =2/3V _{DRM}	10			V/μs
I _H	Holding Current			25		mA
R _{th}	Thermal Resistance	Junction to case			1.3	°C/W

Trigger mode of the triac

