

TRIAC(Through Hole / Isolated)

TMG2DQ60F 5

(T_j=150°C / Sensitive Gate)

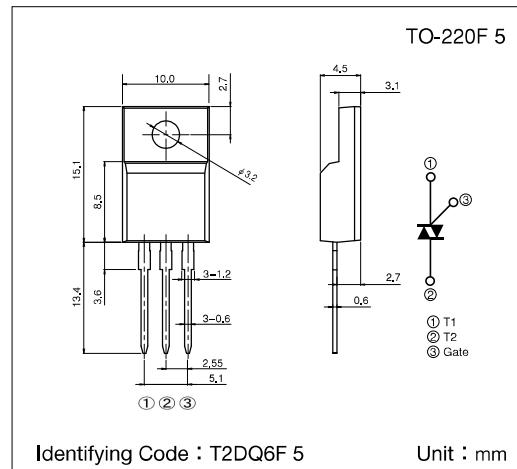
SanRex Triac TMG2DQ60F 5 is designed for full wave AC control applications. It can be used as an ON/OFF function or for phase control operation.

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)}=2A
- High Surge Current



Identifying Code : T2DQ6F 5

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 =129°C	2		A
I _{SM}	Surge On-State Current	One cycle, 50Hz/60Hz, Peak value, non-repetitive	18/20		A
I ² t	I ² t (for fusing)		1.67		A ² s
P _{GM}	Peak Gate Power Dissipation		1.5		W
P _{G(AV)}	Average Gate Power Dissipation		0.1		W
I _{GM}	Peak Gate Current		1		A
V _{GM}	Peak Gate Voltage		7		V
V _{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1minute	1500		V
T _j	Operating Junction Temperature		-40~+150		°C
T _{stg}	Storage Temperature		-40~+150		°C
	Mass		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 =150°C			1	mA
V _{TM}	Peak On-State Voltage	I _T =3A, Inst. measurement			1.6	V
I _{GT1} ⁺ 1	Gate Trigger Current	V _D =6V, R _L =10Ω			5	mA
I _{GT1} ⁺ 2					5	
I _{GT3} ⁺ 3					10	
I _{GT3} ⁺ 4					5	
V _{GT1} ⁺ 1	Gate Trigger Voltage	V _D =6V, R _L =10Ω			1.5	V
V _{GT1} ⁺ 2					1.5	
V _{GT3} ⁺ 3					2.0	
V _{GT3} ⁺ 4					1.5	
V _{GD}	Non-Trigger Gate Voltage	T _j =150°C, V _D =1/2V _{DRM}	0.1			V
(dv/dt) _C	Critical Rate of Rise of Off-State Voltage at Commutation	T _j =150°C, (di/dt) _C =-1A/ms, V _D =2/3V _{DRM}	1			V/μs
I _H	Holding Current				2	mA
R _{th(j-c)}	Thermal Resistance	Junction to case			7.5	°C/W
R _{th(j-a)}		Junction to ambient			50	

Trigger mode of the triac

