

TRIAC(Through Hole/Isolated)

TMG2CQ60F 5

(T_j=150°C)

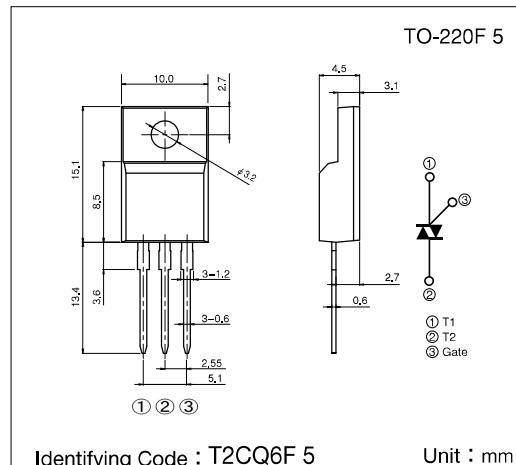
SanRex Triac TMG2CQ60F 5 is designed for full wave AC control applications. It can be used as an ON/OFF function or for phase control operation.

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 : T2CQ6F 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	$T_c = 129^\circ C$	2	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, Peak value, non-repetitive	18/20	A
I^2t	I^2t (for fusing)		1.67	A^2s
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		15	mA
I _{GT1} ⁻	2				15	
I _{GT3} ⁺	3				—	
I _{GT3} ⁻	4				15	
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 =150°C, V _D =½V _{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 =⅔V _{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	°C/W

