

TRIAC (NON-ISOLATED TYPE) TO-3P PACKAGE

TMG25C60

 $I_{T(RMS)}=25A, V_{DRM}=600V$

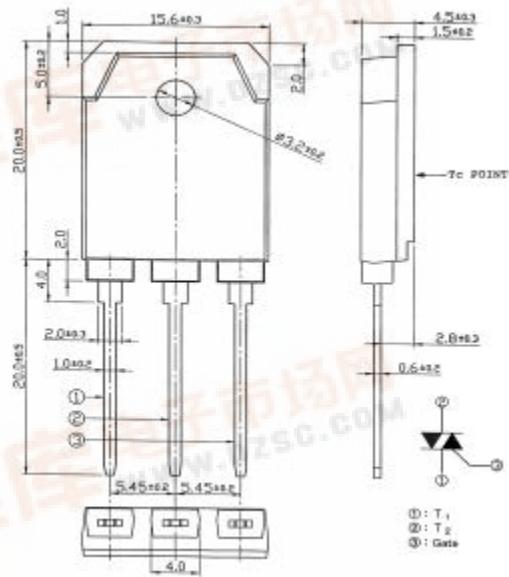
SanRex Triac **TMG25C60** is designed for full-wave AC control applications. It can be used as an ON/OFF function or for phase control operations.

Features

- * Glass-passivated junctions
- * High Surge Current

Typical Applications

- * Heater Control
- * Motor Control
- * Lighting Control
- * Power Supplies



< Maximum Ratings >

(T_j = 25°C Unless Otherwise Specified)

Symbol	Item	Conditions	Ratings		Unit
V _{DRM}	Repetitive Peak Off-state Voltage		600		V
I _{T(RMS)}	R.M.S. On-state Current	T _c = 86°C	25		A
I _{SM}	Surge On-state Current	One cycle, 50/60Hz, peak value, non-repetitive	225/250		A
I ² t	I ² t (for fusing)	Value for one cycle of surge current	260		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	Operation Junction Temperature		-40 to +125		°C
T _{stg}	Storage Temperature		-40 to +125		°C
	Mass		6.2		g

< Electrical Characteristics >

(T_j = 25°C Unless Otherwise Specified)

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I _{DRM}	Repetitive Peak Off-state Current	V _D =V _{DRM} , T _j = 125°C, Single phase, half wave			5	mA
V _{TM}	Peak On-state Voltage	I _T = 35A, Inst. Measurement			1.4	V
I _{GT1+} I _{GT1-} I _{GT3+} I _{GT3-}	Gate Trigger Current	V _D = 6V, R _L = 10Ω			30	mA
V _{GT1+} V _{GT1-} V _{GT3+} V _{GT3-}					30	
			-	-	-	
					30	
V _{GD}	Non-trigger Gate Voltage	T _j = 125°C, V _D =1/2V _{DRM}	0.2			V
I _H	Critical Rate of Rise of Off-State Voltage at Commutation	T _j = 125°C, V _D =2/3V _{DRM} (di/dt) _c =-12.5A/ms	6			VF _s
R _{th(j-c)}	Holding Current			35		mA
	Thermal Resistance	Junction to case			1.3	°C/W