SanRex®

TRIAC

TMG40C80J

 $I_{T(RMS)} = 40A, V_{DRM} = 800V$

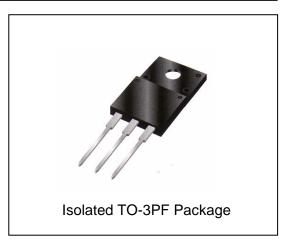
SanRex Triac TMG40C80J is designed for full wave AC control applications. It can be used as an ON/OFF function or for phase control operation. TMG40C80J has an isolated diffusion type die with glass-passivated junctions. It achieves very high reliability and keeping stable design criteria.

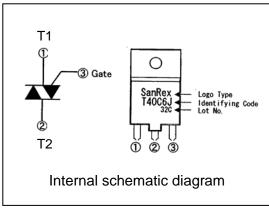
Features

- * Glass-passivated junctions features
- * High surge Current
- * Low voltage drop
- * Lead-free solder plated terminals
- * UL registered E76102

Typical Applications

- * Home Appliances
- * Heater Controls
- * Lighting Controls
- * Temperature Controls





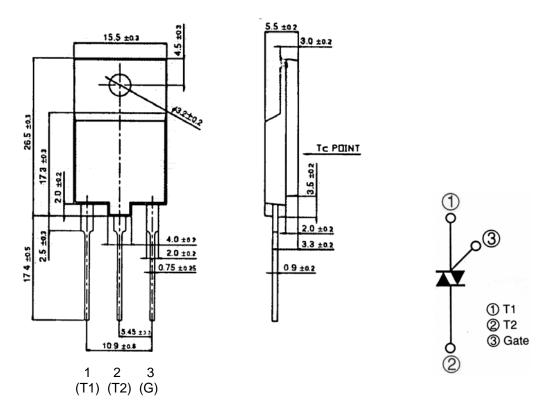
< Maximun	n Ratings>	(Tj = 25°C unless otherwise noted)		
Symbol	Item	Conditions	Ratings	Unit
V_{DRM}	Repetitive Peak Off-state Voltage		800	V
I _{T(RMS)}	R.M.S. On-state Current	T _C = 73°C	40	Α
I _{TSM}	Surge On-state Current	One cycle, 60Hz, Peak, non-repetitive	420	Α
l²t	I ² t (for fusing)	Value for one cycle surge current	730	A ² s
P _{GM}	Peak Gate Power Dissipation		10	W
P _{G(AV)}	Average Gate Power Dissipation		1	W
I _{GM}	Peak Gate Current		3	Α
V _{G M}	Peak Gate Voltage		10	V
Viso	Isolation Voltage	A.C. 1 minuite	1500	V
Tj	Operation Junction Temperature		-40 to +125	°C
Tstg	Storage Temperature		-40 to +150	°C
	Mass	Typical Value	5.6	g

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< Electrical Characteristics >

	t .	0 100	Ratings				
Symbol	Item		Conditions	Min.	Тур.	Max.	Unit
I _{DRM}	Repetitive Peak Off-state Current		$T_j = 125$ °C, $V_D = V_{DRM}$, Single Phase, Half wave			5	mA
V_{TM}	Peak On-State Voltage		I _T =60A, Instant measurement			1.4	V
I _{GT} 1 ⁺	QI	- Gate Trigger Current	$V_D = 6V$, $I_T = 1A$			50	mA
I _{GT} 1	QII					50	mA
I _{GT} 3 ⁺	QIV					-	mA
I _{GT} 3	QIII					50	mA
$V_{GT}1^{+}$	QI	Gate Trigger Voltage	$V_D = 6V$, $I_T = 1A$			1.5	V
V _{G T} 1	QII					1.5	V
$V_{GT}3^{+}$	QIV					-	V
V _G _T 3 ⁻	QIII					1.5	V
V_{GD}	Non-Trigger Gate Voltage		$Tj = 125^{\circ}C, V_{D}=1/2V_{DRM}$	0.2			V
(dv/dt)c	Critical Rate of Rise of Commutation Voltage		$Tj = 125^{\circ}C$, $V_D=2/3V_{DRM}$, $(di/dt)c=-20A/ms$	10			V/Fs
ΙH	Holding Current				30		mA
Rth(j-c)	Thermal Resistance		Junction to case			1.1	°C/W



^{*} Dimensions in millimeters (1mm=0.0394")