TRIAC(ISOLATED TYPE)

TMG5C40/60F



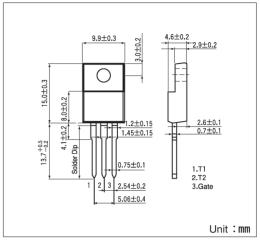


UL;E76102 (M)

TMG5C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- ●IT(RMS) 5A
- High surge capability 55A
- Full molded isolated type
- Three types of lead forming





Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		
Symbol		TMG5C40F	TMG5C60F	Unit
VDRM	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
IT (RMS)	R.M.S. On-State Current	Tc=100℃	5	Α
Ітѕм	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	50/55	Α
l²t	l²t		12.6	A ² S
Рам	Peak Gate Power Dissipation		3	W
Pg (AV)	Average Gate Power Dissipation		0.3	W
lgм	Peak Gate Current		2	Α
V _{GM}	Peak Gate Voltage		10	V
Viso	Isolation Breakdown Voltage (R.M.S.)	A.C.1 minute	1500	V
Tj	Operating Junction Temperature		− 40∼ + 125	$^{\circ}$
Tstg	Storage Temperature		− 40∼ + 125	$^{\circ}$
	Mass		2	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit	
	item		Conditions		Тур.	Max.	Oille
IDRM	R	eptitive Peak Off-State Current	VD=VDRM, Single phase, half wave, Tj=125°C			1	mA
VTM	Р	eak On-State Voltage	I⊤=7A, Inst. measurement			1.4	V
I _{GT1}	1	Gate Trigger Current	VD=6V, RL=10Ω			20	mA
I _{GT1}	2					20	
+ GT3	3					_	
I - GT3	4					20	
V _{GT1}	1	Gate Trigger Voltage	$V_D=6V$, $R_L=10 \Omega$			1.5	V
V	2					1.5	
V + GT3	3					_	
V _ GT3	4					1.5	
Vgd	N	on-Trigger Gate Voltage	Tj=125°C, VD=1/2√DRM	0.2			V
(dv/dt)c	Critical Rate of Rise off-State Voltage at commutation		$Tj=125^{\circ}C$, $(di/dt)c=-2.5A/ms$, $VD=^{2}/_{3}VDRM$	5			V/µs
lн	Holding Current				10		mA
Rth (j-c)	TI	nermal Impedance	Junction to case			4.0	°C/W

TMG5C40/60F







