TRIAC(ISOLATED TYPE)

TMG10C40/60F



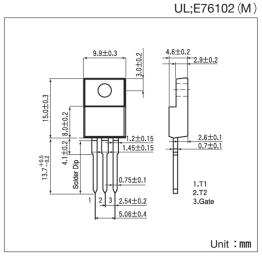




TMG10C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- ●IT(RMS) 10A
- High surge capability 110A
- Full molded isolated type
- Three types of lead forming





Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		
		TMG10C40F	TMG10C60F	Unit
VDRM	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
IT (RMS)	R.M.S. On-State Current	Tc=83℃	10	Α
Ітѕм	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	100/110	Α
l²t	l²t		50	A ² S
Рам	Peak Gate Power Dissipation		5	W
Pg (AV)	Average Gate Power Dissipation		0.5	W
Igм	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	°C
Tstg	Storage Temperature		− 40∼ + 125	°C
	Mass		2	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit	
	item		Conditions		Тур.	Max.	
IDRM	R	eptitive Peak Off-State Current	VD=VDRM, Single phase, half wave, Tj=125°C			2	mA
VTM	Peak On-State Voltage		IT=15A, Inst. measurement			1.4	V
I + GT1	1	Gate Trigger Current	VD=6V, RL=10Ω			30	- mA
I _{GT1}	2					30	
I + GT3	3					_	
I _ GT3	4					30	
V _{GT1} ⁺	1	Gate Trigger Voltage	V _D =6V, R _L =10Ω			1.5	V
V	2					1.5	
V _{GT3}	3					_	
V	4					1.5	
VGD	Ν	on-Trigger Gate Voltage	Tj=125℃, VD=½VDRM	0.2			V
(dv/dt)c	Critical Rate of Rise off-State Voltage at commutation		$Tj=125^{\circ}C$, $(di/dt)c=-5A/ms$, $VD=^{2}\sqrt{3}VDRM$	10			V/µs
Ін	Holding Current				20		mA
Rth (j-c)	Т	hermal Impedance	Junction to case			3.5	°C/W

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