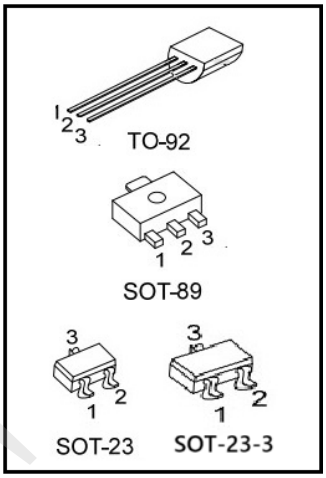
鼎德丰
DING DE FENG

TRIAC MAC97A6

FEATURES

- Direct interfacing to logic level ICs
- Direct interfacing to low power gate drive circuits and microcontrollers
- High blocking voltage capability
- Planar passivated for voltage ruggedness and reliability
- Triggering in all four quadrants
- Very sensitive gate

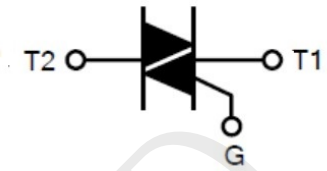


APPLICATIONS

- General purpose bi-directional switching and phase control application.
- Air conditioner indoor fan control
- General purpose motor control
- General purpose switching

Package	Pin assignment		
	1	2	3
TO-92	T1	G	T2
SOT-23	T1	G	T2
SOT-23-3	T1	G	T2
SOT-89	T1	T2	G

SYMBOL:



ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE		UNIT
Repetitive Peak Off-State Voltages	V_{DRM}	400/600		V
	V_{RRM}	400/600		
RMS on-State Current	$I_{T(RMS)}$	0.8		A
Non-Repetitive Peak On-State Current	I_{TSM}	8		A
I^2t for fusing	I^2t	0.26		A^2s
Repetitive rate of rise of on-state current after triggering	dIT/dt	I-II-III	50	A/uS
		IV	10	
Peak gate current	I_{GM}	1		A
Peak Gate Power	P_{GM}	1		W
Average Gate Power	$P_{G(AV)}$	0.1		W
Operating junction temperature	T_J	-40~+125		℃
Storage Temperature	T_{STG}	-40 ~ +150		℃

ELECTRICAL CHARACTERISTICS (TJ=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	MAX	UNITS
Peak Repetitive Forward or Reverse Blocking Current	I_{DRM} I_{RRM}	V_{AK} = Rated V_{DRM} or V_{RRM};			5	uA
Gate Trigger Current	I_{GT}	V_D=12V, R_L=100Ω	I		5	mA
			II		5	
			III		5	
			IV		10	
Gate Trigger Voltage	V_{GT}	V_D=12V, R_L=100Ω			1.3	V
Peak Forward On-State Voltage	V_{TM}	IT=1.0A			1.5	V
Latch Current	I_L	I_G = 1.2 I_{GT}	I		10	mA
			II		20	
			III		10	
			IV		10	
Holding Current	I_H	I_T=0.1A			8	mA
Gate Non-Trigger Voltage	V_{GD}	V_D=V_{DRM}		0.2		V
Critical Rate of Rise of Off-State Voltage	dV/dt	V_D=67%V_{DRM}, R_{GK}=1kΩ		5		V/μs