



Silicon Bidirectional Triode Thyristors

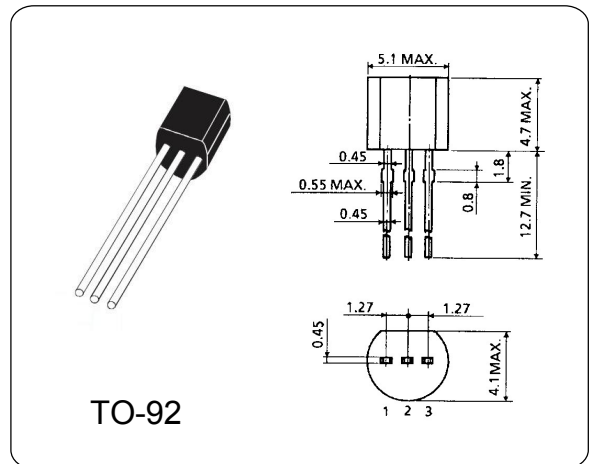
MAC97A Series

GENERAL DESCRIPTION

Designed for use in solid state relays, MPU interface, TTL logic and any other light industrial or consumer application. Supplied in an inexpensive TO - 92 package which is readily adaptable for use in automatic insertion equipment.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Typ		Unit
		MAC97A6	MAC97A8	
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	400	600	V
RMS on-state current	$I_{T(RMS)}$	0.6		A
Non-repetitive peak on-state current	I_{TSM}	8.0		A
Max. Operating Junction Temperature	T_j	110		°C
Storage Temperature	T_{stg}	-45~150		°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min	Typ		Max	Unit
				MAC97A6	MAC97A8		
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		—	400	600	—	V
RMS on-state current	$I_{T(RMS)}$	all conduction angles	—	0.6		—	A
On-state voltage	V_T	$I_T=1.1 A$	—	1.50		1.65	V
Holding current	I_H	$V_D =12 V$; $I_{GT}=200 mA$	—	—		5	mA
Gate trigger current	T2+G+	$V_D =12 V$; $R_L= 100 \Omega$	—	—		5.0	mA
	T2+G-		—	—		5.0	
	T2-G-		—	—		5.0	
	T2-G+		—	—		7.0	
Gate trigger voltage	V_{GT}	$V_D =7.0 V$; $R_L= 100 \Omega$	—	0.5		0.8	V