



## Silicon Bidirectional Triode Thyristors

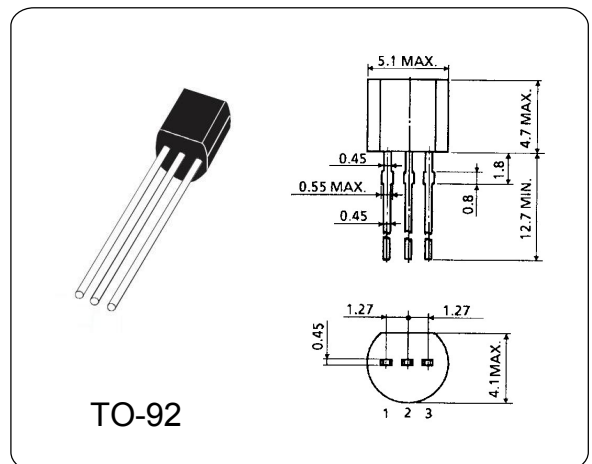
## MAC97A Series

### 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