

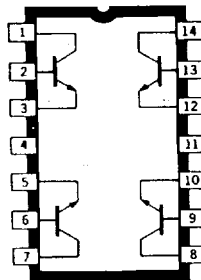
SERIES TPQ

29711A

QUAD TRANSISTOR ARRAYS

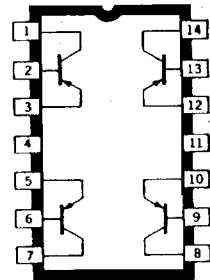
Series TPQ quad transistor arrays are general-purpose silicon transistor arrays consisting of four independent devices.

All of these devices are furnished in a 14-pin dual in-line plastic package. The molded package is identical to that used with most consumer integrated circuits and offers superior mechanical protection during insertion into printed wiring boards.



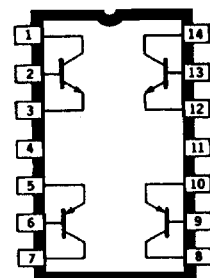
Dwg. No. A-10.050A

TPQ2222
TPQ2222A
TPQ3904



Dwg. No. A-10.051A

TPQ2907A
TPQ3906



Dwg. No. A-10.053A

TPQ6502

ABSOLUTE MAXIMUM RATINGS

Power Dissipation, P_D	
(Each Transistor)	500 mW
(Total Package)	2.0 W*
Operating Temperature Range,	
T_A	-55°C to +150°C
Storage Temperature Range,	
T_S	-65°C to +150°C

* Derate at the rate of 16 mW/°C above
 $T_A = +25^\circ\text{C}$

SERIES TPQ QUAD TRANSISTOR ARRAYS

ELECTRICAL CHARACTERISTICS at $T_A = +25^\circ\text{C}$

Part Number	$V_{(BR)CBO}$ (V)	$V_{(BR)CEO}$ (V)	$V_{(BR)EBO}$ (V)	I_{CBO}		DC Current Gain			Saturation Voltage			f_T		C_{ob} Max. (pF)	Similar Discrete Devices
				Max @ V_{CB} (nA)	Max @ V_{CB} (V)	h_{FE} Min.	Conditions		V_{CE} Max. (V)	V_{BE} Max. (V)	@ I_C (mA)	Min. (MHz)	@ I_C (mA)		
							I_C (mA)	V_{CE} (V)							

Four NPN Devices

TPQ2222	60	40	5.0	50	50	75	10	10	0.40	1.30	150	200	20	8.0	2N2222
						100	150	10	1.60	2.60	300				
						30	300	10							
TPQ2222A	75	40	6.0	50	50	75	10	10	0.40	1.30	150	200	20	8.0	2N2222A
						100	150	10	1.60	2.60	300				
						30	300	10							
TPQ3904	60	40	6.0	50	40	30	0.1	1.0	0.20	0.85	10	250	10	4.0	2N3904
						50	1.0	1.0							
						75	10	1.0							

Four PNP Devices

TPQ2907A	-60	-60	-5.0	50	-30	75	10	-10	-0.40	-1.30	150	200	50	8.0	2N2907A
						100	150	-10	-1.60	-2.60	300				
						50	300	-10							
TPQ3906	-40	-40	-5.0	50	-30	40	0.1	-1.0	-0.25	-0.85	10	200	10	4.5	2N3906
						60	1.0	-1.0							
						75	10	-1.0							

Two NPN/Two PNP Devices (Note 3)

TPQ6502	60	30	5.0	30	50	50	1.0	10	0.40	1.30	150	200	50	8.0	2N2222 and 2N2907
						75	10	10	1.40	2.00	300				
						100	150	10							
						30	300	10							

NOTE: 1. Base-emitter voltage shown is $V_{BE(ON)}$ at indicated I_C , $V_{CE} = 5.0$ V.
 2. I_{CES} at $V_{CE} = 50$ V, $V_{BE} = 0$
 3. Complimentary pairs. Polarity shown is for NPN devices. NOTE: