New Jersey Semi-Conductor Products, Inc.

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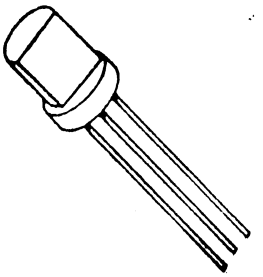
Silicon Transistors

NPN

2N3395,6,7,8



electrical characteristics: (25°C) (unless otherwise specified)

DC Characteristics		Sym.	Min.	Max.	Units
Collector cutoff current (V_{CB} =25V, I_E =0)		I_{CBO}		0.1	ua
Emitter cutoff current (V_{EB} =5V, I_C =0)		I_{EBO}		0.1	ua
Forward current transfer ratio (V_{CE} =4.5V, I_C =2 ma)	2N3395	h_{FE}	150	500	
	2N3396		90	500	
	2N3397		55	500	
	2N3398		55	800	
Grounded-base, open circuit output (V_{CE} =10V) Collector Capacitance (I_E =0, f=1 mc)		C_{ob}	4.5	10	pf

absolute maximum ratings: (25°C) (unless otherwise specified)

Voltages			
Collector to Emitter	V_{CEO}	25	V
Emitter to Base	V_{EBO}	5	V
Collector-to Base	V_{CBO}	25	V
Current			
Collector (Steady State)*	I_C	100	ma
Dissipation			
Total Power (Free air at 25°C)**	P_T	360	mw
Total Power (Free air at 55°C)**	P_T	250	mw
Temperature			
Storage	T_{STG}	-55°C to +150°C	
Operating	T_J	+125°C	
Lead Temperature, 1/16" ± 1/32" from case for 10 seconds max.	T_L	+260°C	

* Determined from power limitations due to saturation voltage at this current

** Derate 3.6 mw/°C increase in ambient temperature above 25°C.

NJS

Quality Semi-Conductors