

# PLANAR SWITCHING

## PLANAR SWITCHING TRANSISTOR SELECTOR CHART

Devices listed are NPN except where marked with \* which signifies PNP.

Package I <sub>c</sub>	TO-39	TO-39	TO-39	TO-39	TO-39	TO-39
V <sub>CE0</sub> Volts	1A	2A	3A	5A	7.5A	10A
40	2N4037*			BSV60		
60	2N4036*	BSV64 BFX34	2N3418 2N3420 BUY90*	BUX34 BUY80 BUY91*	BUY81 BUY92*	BUY82
80	2N4000		2N3419 2N3421			
100	2N4001					



TO-39

# SWITCHING

**TABLE 6 – NPN SILICON PLANAR HIGH CURRENT SWITCHING TRANSISTORS**

The transistors shown in this table are designed for high current, high dissipation switching applications in Industrial and Military equipments.

The devices are listed in order of decreasing Collector Current, Breakdown Voltage, Power Dissipation, etc.

Type	I <sub>C</sub> (Max) A	V <sub>CEO</sub> V	Max V <sub>CE(sat)</sub> at			h <sub>FE</sub> at			Switching Times at			P <sub>tot</sub> at T <sub>case</sub> = 25°C W	Package
			V	I <sub>C</sub> A	I <sub>B</sub> A	min.	max.	I <sub>C</sub> A	t <sub>on</sub> ns	t <sub>off</sub> ns	I <sub>C</sub> A		
BUY82	10	60	1	10	0.75	15	—	10	320	245	10	30	TO-39
BUY81	7.5	60	1	7.5	0.5	10	—	7.5	160	430	5	24	TO-39
BUY80	5	60	1	5	0.5	15	—	5	170	200	5	20	TO-39
BUX34	5	60	1	5	0.5	40	150	2	140	180	5	20	TO-39
BSV60	5	40	0.9	2	0.2	40	120	2	500	1000	1	6.2	TO-39
2N3419	3	80	0.5	2	0.2	20	60	1	300	1200	1	30	TO-39
2N3420	3	80	0.5	2	0.2	40	120	1	300	1200	1	30	TO-39
2N3418	3	60	0.5	2	0.2	20	60	1	300	1200	1	30	TO-39
2N3421	3	60	0.5	2	0.2	40	120	1	300	1200	1	30	TO-39
BFX34	2	60	1	5	0.5	40	150	2	140	180	5	5	TO-39
BSV64	2	60	1	5	0.5	40	—	2	140	180	5	5	TO-39
2N4001	1	100	0.5	1	0.1	40	120	0.5	300	2000	0.5	20	TO-39
2N4000	1	80	0.5	1	0.1	30	120	0.5	300	2000	0.5	20	TO-39

**TABLE 7 – PNP SILICON PLANAR HIGH CURRENT SWITCHING TRANSISTORS**

The transistors shown in this table are designed for high current, high dissipation switching applications in Industrial and Military equipments.

The devices are listed in order of decreasing Collector Current, Breakdown Voltage, Power Dissipation, etc.

Type	I <sub>C</sub> (Max) A	V <sub>CEO</sub> V	Max V <sub>CE(sat)</sub> at			h <sub>FE</sub> at			Switching Times at			P <sub>tot</sub> at T <sub>case</sub> = 25°C W	Package
			V	I <sub>C</sub> A	I <sub>B</sub> A	min.	max.	I <sub>C</sub> A	t <sub>on</sub> ns	t <sub>off</sub> ns	I <sub>C</sub> A		
BUY92	7.5	60	1	7.5	0.75	40	—	1	—	—	—	30	TO-39
BUY91	5	60	1	5	0.5	40	—	1	—	—	—	25	TO-39
BUY90	3	60	1	3	0.3	40	—	1	—	—	—	20	TO-39
2N4036	1	65	0.65	0.15	0.015	40	140	0.15	110	700	0.15	1*	TO-39
2N4037	1	40	1.4	0.15	0.015	50	250	0.15	—	—	—	1*	TP-39

\*at T<sub>amb</sub> = 25°C