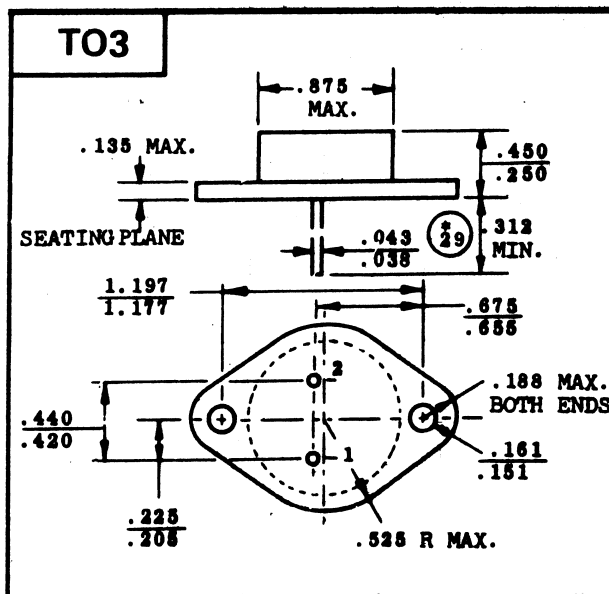


## BIPOLAR TRANSISTORS Ratings and Specifications

### 1 High speed switching transistors

- Suitable for 50kHz class switching regulators
- Allows transformers to be reduced in size

Device type	V <sub>CS0</sub>	V <sub>CE0</sub>	V <sub>CE0</sub> (sus)	I <sub>C</sub> cont.	P <sub>C</sub>	h <sub>FE</sub> min.	I <sub>C</sub>	V <sub>CE</sub>	Switching time (Max.)			Package	Net weight Grams
	Volts	Volts	Volts	Amps.	Watts		Amps.	Volts	t <sub>on</sub> μsec.	t <sub>eg</sub> μsec.	t <sub>r</sub> μsec.		
2SC4383	200	180	180	8	40	30	3	4	2.0	4.0	1.0	TO-220F	2.5
2SC2767	300	200	200	5	60	20	1	5	1.0	2.0	1.0	TO-220AB	2
2SC2769	300	200	200	10	100	20	2	5	0.8	2.0	0.5	TO-3P	6
2SC3822	450	400	400	5	30	10	2	5	1.0	2.5	0.5	TO-220F	2.5
2SC3723	450	400	400	5	40	10	2	5	1.0	2.5	0.5	TO-220AB	2
2SC3821	450	400	400	5	40	10	2	5	1.0	2.5	1.0	TO-220F	2.5
2SC4242	450	400	400	7	40	10	4	5	1.0	2.5	0.5	TO-220AB	2
2SC3724	450	400	400	10	80	10	4	5	1.0	2.5	0.5	TO-3P	6
2SC2625	450	400	400	10	80	10	4	5	1.0	2.0	1.0	TO-3P	6
2SC3725	450	400	400	15	80	10	6	5	1.0	2.5	0.5	TO-3P	6
2SC2929	500	400	400	3	60	20	0.5	5	1.5	2.0	0.8	TO-220AB	2
2SC3865	500	400	400	5	40	10	2	5	0.5	1.5	0.15	TO-220F	2.5
2SC4622	500	400	400	7	40	10	4	5	1.0	2.5	0.5	TO-220AB	2
2SC4795	500	400	400	30	120	20	12	5	1.0	2.5	0.5	TO-3P	6
2SC2542	650	400	400	5	60	10	2	5	1.0	2.0	1.0	TO-220AB	2
2SC2245	650	400	400	10	120	10	4	5	1.0	2.0	1.0	TO-3	17
2SC2246	650	400	400	15	120	10	6	5	1.0	2.0	1.0	TO-3	17
2SC2623	650	400	400	20	120	10	8	5	1.0	3.0	1.0	TO-3	17
2SC4786	900	500	500	5	40	20	1	5	1.0	4.0	0.5	TO-3PF	6
ET359	300	200	200	8	80	80	1	4	2.0	4.0	1.0	TO-3P	6
ET405	450	400	400	10	80	10	4	5	1.0	2.0	1.0	TO-3PF	6
ET364	450	400	400	20	80	10	8	5	1.0	3.0	1.0	TO-3P	6
ET389	500	400	400	5	30	18	1.2	2	1.0	3.0	0.5	TO-220F	2.5
ET403	850	500	500	6	40	15	0.5	5	1.0	3.0	1.0	TO-220F	2.5



**Electrical Characteristics:** ( $T_C = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	75	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}, R_{BE} = \text{Infinity}$	75	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	5	-	-	V
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 30\text{V}, I_E = 0$	-	-	100	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4\text{V}, I_C = 0$	-	-	100	$\mu\text{A}$
DC Forward Current Gain	$h_{FE}$	$V_{CE} = 12\text{V}, I_C = 100\text{mA}, \text{Note 1}$	35	70	180	
Power Output	$P_O$	$V_{CC} = 12\text{V}, P_{in} = 0,25\text{W}, f = 27\text{MHz}$	6	7,5	-	W
Collector Efficiency			55	60	-	%

Note 1. Pulse test: Pulse Width =  $150\mu\text{s}$ , Duty Cycle = 5%.