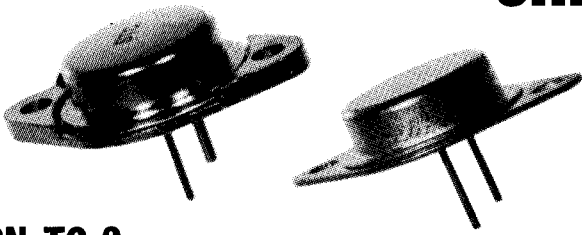


silicon power transistors



NPN TO-3

$I_{C(MAX)} = 3.0 \text{ to } 30\text{A}$

$V_{CE(SUS)} = 35 \text{ to } 350\text{V}$

$f_T = 0.7 \text{ to } 60 \text{ MHz}$

Type #	$V_{CE(SUS)}$ (Volts)	I_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(SAT)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	P_D @ $T_C = 25^\circ\text{C}$ (Watts)	θ_{JC} ($^\circ\text{C/W}$)	$I_{S/B}$ @ V_{CE} $t = 1\text{sec}$ (A @ V)	f_T (MHz)	t_{ON} @ I_C/I_B (μs @ A/A)	t_{OFF} @ I_C/I_B (μs @ A/A)	Generic Product	General Information		
2N1487	40	15-45@1.5/4	3.0@1.5/.3	3.5@1.5/4	.025 ² @30	75	2.33		1.0			2N1490 Family. 115 x 115 Mil Chip. Single Diffused Process. Clip Leads. Case 280	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N1488	55	15-45@1.5/4	3.0@1.5/.3	3.5@1.5/4	.025 ² @30	75	2.33		1.0						
2N1489	40	25-75@1.5/4	1@1.5/.1	2.5@1.5/4	.025 ² @30	75	2.33		1.0						
2N1490	55	25-75@1.5/4	1@1.5/.1	2.5@1.5/4	.025 ² @30	75	2.33		1.0						
Typical Values	60	15-100@1.5/4	.8@1.5/.1	1.7@1.5/4	.02²@30	75	2.33	3.75@20	1.0	3@1/.1	6@1/.1				
2N3055	60	20-70@4/4	1.1@4/.4	1.8@4/4	5@100	117	1.5	1.95@80				2N3055 Family. 170 x 170 Mil Chip. Single Diffused Process. Clip Leads. Case 280	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N3232	60	18-55@3/10	2.5@3/.2	3.5@3/10	1@60	117	1.5		1.0						
2N3235	55	20-70@4/4	1.1@4/.4	1.8@4/4	5@90	117	1.5		1.0						
STC40251	40	15-60@8/4	1.5@8/.8	2.2@8/4	2@40	117	1.5	3.0@39							
STC40325	35	12-60@8/4	1.5@8/.8	2.0@8/4	5 ² @30	117	1.5								
STC40363	70(V_{CER})	20-70@4/4	1.1@4/.4	1.8@4/4	.5 ¹ @60	117	1.5		0.7						
STC40636	95(V_{CER})	20-70@4/4	1.0@4/.4	1.4@4/4	.5 ¹ @85	117	1.5								
Typical Values	75	20-100@4/4	.8@4/.4	1.6@4/4	.5@60	117	1.5	1.95@60	1.0	4@1/.1	6@1/.1				
2N3233	100	18-55@3/10	2.5@3/.2	3.5@3/10	1@100	117	1.5		1.0			2N3442 Family. 170 x 170 Mil Chip. Single Diffused Process. Clip Leads. Case 280	General Purpose High Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N3234	160	18-55@3/10	2.5@3/.2	3.5@3/10	1@160	117	1.5		1.0						
2N3442	140	20-70@3/4	1.0@3/.3	1.7@3/4	5@140	117	1.5	1.5@78							
2N4347	120	15-60@2/4	1.0@2/.2	2.0@2/4	2@125	100	1.5	1.5@67							
Typical Values	130	20-70@3/4	.8@3/.3	1.5@3/4	1@130	117	1.5	1.5@78	1.0	4@1/.1	6@1/.1				
2N3236	90	17-60@5/4	1.1@5/.5	1.8@5/4	2@90	150	1.17		1.0			2N3772 Family. 240 x 240 Mil Chip. Single Diffused Process. Clip Leads. Case 281	General Purpose Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N3237	75	12-36@10/8	2.0@10/1.33	3@10/8	5@75	200	1.0		1.0						
2N3238	80	8.5-25@10/12	3@10/1.33	4@10/12	5@80	150	1.17		1.0						
2N3239	80	8.5-25@10/10	1.0@10/1.33	2@10/10	5@80	150	1.17		1.0						
2N3771	40	15-60@15/4	2.0@15/1.5	2.7@15/4	2@50	150	1.17	3.75@40	0.8						
2N3772	60	15-60@10/4	1.4@10/1.0	2.2@10/4	5@100	150	1.17	2.5@60	0.8						
STC40411	90(V_{CER})	35-100@4/4	.8@4/.4	1.2@4/4	5 ¹ @80	150	1.17	5@40	0.8						
Typical Values	60	15-100@10/4	1.0@10/1	1.7@10/4	1@60	150	1.17	3@50	1.0	5@1/.1	10@1/.1				
2N3240	160	8.5-25@10/10	1.0@10/1.33	2@10/10	5@160	150	1.17		1.0			2N3773 Family. 240 x 240 Mil Chip. Single Diffused Process. Clip Leads. Case 281	General Purpose High Power Switch and Amplifier. Consumer, Industrial, and Military Usage.		
2N3773	140	15-60@8/4	1.4@8/.8	2.2@8/4	2@140	150	1.17	1.5@100	0.8						
2N4348	120	15-60@5/4	1.0@5/.5	2@5/4	2@125	120	1.46	1.5@80							
Typical Values	140	15-100@8/4	1.1@8/.8	1.8@8/4	1@140	150	1.17	1.5@100	0.8	6@1/.1	10@1/.1				
STA3445	60	20-60@3/5	1.5@3/.3	1.5@3/5	.1@60	115	1.5	7.5@15.3	10	.35@5/5	2.4@5/5	STA3445 Family. 140 x 140 Mil Chip. Double Epitaxial Process. Ultrasonically Bonded Leads. Case 282	High Speed, Power Amplifier and Switch. Industrial and Military Usage.		
STA3446	80	20-60@3/5	1.5@3/.3	1.5@3/5	.1@60	115	1.5	7.5@15.3	10	.35@5/5	2.4@5/5				
STA3447	60	40-120@5/5	1.5@5/5	1.4@5/5	.1@60	115	1.5	7.5@15.3	10	.35@5/5	2.4@5/5				
STA3448	80	40-120@5/5	1.5@5/5	1.4@5/5	.1@80	115	1.5	7.5@15.3	10	.35@5/5	2.4@5/5				
STA8350	100	20-200@4/3	1.5@4/4	2@4/3	1.0@100	115	1.5	7.5@15.3	40	.35@4/4	1@4/4				
STA8351	140	20-200@3/3	1.5@3/3	2@3/3	1.0@140	115	1.5	7.5@15.3	40	.35@3/3	1@3/3				
NOTE: This product is developmental.															
Typical Values	120	20-200@3/5	1@3/3	1.4@3/5	.1@100	115	1.5	7.5@15.3	40	.35@5/5	1@5/5				

¹ I_{CER} @ V_{CE} (mA @ V)

² I_{CBO} @ V_{CB} (mA @ V)