

High-Speed Switching (Continued)

Type No.	V _{CEO(sus)} V	V _{CEX(sus)} V	P _T W	h _{FE}		V _{CE(sat)} -V		t _r μs	t _f μs	JEDEC Package		
				I _C A	V _{CE} V	I _C A	I _B A					
2N5322 FAMILY (p-n-p)			35W max	Complementary to 2N5320 Family; f_T to 60MHz min.								
2N5323	-50	-75**	10	40-250	-500m	-4	-1.2	-500m	-50m	100†	1000#	TO-205AD/ TO-39
2N5322	-75	-100**	10	30-130	-500m	-4	-0.7	-500m	-50m	100†	1000#	
2N5671 FAMILY (n-p-n)			175W max	f_T to 50MHz min.								
2N5671*	90	120	140	20-100	15	2	0.75	15	1.2	0.5■	0.5	TO-204AA/ TO-3
BUX39	90	120	120	15-45	12	4	1.6	20	2.5	1.5■	0.3	
2N5672*	120	150	140	20-100	15	2	0.75	15	1.2	0.5■	0.5	
BUX10A	125	160	150	20-60	10	2	1.5	20	2	1.5■	0.2	
BUX20A	125	140‡	140	20-60	20	2	0.8	20	2	0.7■	0.5	
2N6033 FAMILY (n-p-n)			140W max	f_T to 50MHz min.								
2N6032*	90	120	140	10-50	50	2.6	1.3	50	5	1	0.5	TO-204AE/ TO-3
2N6033*	120	150	140	10-50	40	2	1	40	4	1	0.5	
2N6688 SwitchMax FAMILY (n-p-n)			200W max									
RCA6340	140	-	200	12 min.	25	2.5	1.8	25	2.5	0.3	0.25	TO-204AA/ TO-3
RCA6341	150	-	200	12 min.	25	2.5	1.8	25	2.5	0.3	0.25	
2N6686@	160	260	200	15 min.	25	2	1.5	25	2.5	0.35	0.25	
BDY58R	160	250**	175	20-60	10	4	1.4	10	1	1■	2*	
2N6687@	180	280	200	15 min.	25	2	1.5	25	2.5	0.35	0.25	
BUX11A	190	250**	200	20-60	8	2	0.6	8	0.8	1■	0.4	
2N6688@	200	300	200	15 min.	20	2	1.5	20	2	0.35	0.25	
BUX21	200	250**	250	20-60	12	2	0.6	12	1.2	1.2■	0.4	
2N6704 SwitchMax FAMILY (n-p-n)			50W max	f_T to 50MHz min.								
2N6702	90	140	50	20	5	2	0.8	5	0.5	0.25	0.5	TO-220AB Plastic Package
BUW64A	90	140	50	20	5	2	0.8	5	0.5	0.25	0.5	
2N6703	110	160	50	20	5	2	0.8	5	0.5	0.25	0.5	
BUW64B	110	160	50	20	5	2	0.8	5	0.5	0.25	0.5	
2N6704	130	180	50	20	4	2	0.7	4	0.4	0.25	0.5	
BUW64C	130	180	50	20	4	2	0.7	4	0.4	0.25	0.5	
D44VH FAMILY (n-p-n)			-	Complementary to D45VH Family								
D44VH1	30	50	83	20 min.	4	1	0.4	8	0.4	0.25	0.18	TO-220AB Plastic Package
D44VH4	45	65	83	20 min.	4	1	0.4	8	0.4	0.25	0.18	
D44VH7	60	80	83	20 min.	4	1	0.4	8	0.4	0.25	0.18	
D44VH10	80	100	83	20 min.	4	1	0.4	8	0.4	0.25	0.18	
D44VM FAMILY (n-p-n)			-	Complementary to D45VM Family								
D44VM1	30	50	50	20 min.	6	1	0.6	6	0.3	0.25	0.075	TO-220AB
D44VM4	45	70	50	20 min.	6	1	0.6	6	0.3	0.25	0.075	
D44VM7	60	80	50	20 min.	6	1	0.6	6	0.3	0.25	0.075	
D44VM10	80	100	50	20 min.	6	1	0.6	6	0.3	0.25	0.075	

* JAN types available m = mA value # t_{OFF}, units are ns ‡ V_{CEr(sus)} ** V_{CEv(sus)} ■ t_{ON} * t_{OFF} † t_{ON}, units are ns @ SwitchMax types