

## High-Speed Switching (Continued)

Type No.	V <sub>CEO(sus)</sub> V	V <sub>CEX(sus)</sub> V	P <sub>T</sub> W	hFE		V <sub>CE(sat)</sub> -V		t <sub>r</sub> μs	t <sub>f</sub> μs	JEDEC Package		
				I <sub>C</sub> A	V <sub>CE</sub> V	I <sub>C</sub> A	I <sub>B</sub> A					
<b>D45VH FAMILY (p-n-p)</b>			-	<b>Complementary to D44VH Family</b>								
D45VH1	-30	-50	83	20 min.	-4	-1	-1	-8	-0.8	0.25	0.1	TO-220AB
D45VH4	-45	-70	83	20 min.	-4	-1	-1	-8	-0.8	0.25	0.1	
D45VH7	-60	-80	83	20 min.	-4	-1	-1	-8	-0.8	0.25	0.1	
D45VH10	-80	-100	83	20 min.	-4	-1	-1	-8	-0.8	0.25	0.1	
<b>D45VM FAMILY (p-n-p)</b>			-	<b>Complementary to D44VM Family</b>								
D45VM1	-30	-50	50	20 min.	-6	-1	-0.6	-6	-0.3	0.25	0.075	TO-220AB
D45VM4	-45	-70	50	20 min.	-6	-1	-0.6	-6	-0.3	0.25	0.075	
D45VM7	-60	-80	50	20 min.	-6	-1	-0.6	-6	-0.3	0.25	0.075	
D45VM10	-80	-100	50	20 min.	-6	-1	-0.6	-6	-0.3	0.25	0.075	
<b>D72 FAMILY (n-p-n)</b>			-	<b>Complementary to D73 Family</b>								
D72F5T1	50	60*	20	30 min.	3	1	0.4	3	0.15	0.1■	0.1	TO-251/2
D72F5T2	50	60*	20	30 min.	3	1	0.4	3	0.15	0.1■	0.1	
<b>D73 FAMILY (p-n-p)</b>			-	<b>Complementary to D72 Family</b>								
D73F5T1	-50	-60*	20	30 min.	-3	-1	-0.4	-3	-0.15	0.1■	0.1	TO-251/2
D73F5T2	-50	-60*	20	30 min.	-3	-1	-0.4	-3	-0.15	0.1■	0.1	
<b>RJH6688 SwitchMax FAMILY (n-p-n)</b>			-									
RJH6686	160	210	200	15 min.	25	2	1.5	25	2.5	0.6	0.8	TO-218AC
RJH6687	180	230	200	15 min.	25	2	1.5	25	2.5	0.6	0.8	
RJH6688	200	250	200	15 min.	20	2	1.5	20	2	0.6	0.8	

■ t<sub>ON</sub> values \*V<sub>CBO</sub>

## High-Voltage

Type No.	V <sub>CEO(sus)</sub> V	V <sub>CEV(sus)</sub> V	P <sub>T</sub> W	hFE		V <sub>CE(sat)</sub> -V		f <sub>T</sub> (Typ) MHz	JEDEC Package				
				I <sub>C</sub> A	V <sub>CE</sub> V	I <sub>C</sub> A	I <sub>B</sub> A						
<b>2N3439 FAMILY (n-p-n)</b>			10W max	<b>Complementary to 2N5415 Family</b>									
40346	-	175‡	10	25 min.	0.01	10	0.5	0.01	0.001	25	TO-205AD/ TO-39		
40346V1	-	175‡	10	25 min.	0.01	10	0.5	0.01	0.001				
40412	-	250‡	10	40 min.	0.03	20	0.5	0.01	0.001				
40321	-	300‡	5	25-200	0.02	10	-	-	-				
40327	-	300‡	5	40-250	0.02	10	-	-	-				
2N3440*	250	300‡	10	40-160	0.02	10	0.5	0.05	0.004				
2N4064□	250	-	10	40-160	0.02	10	0.5	0.05	0.004				
2N3439*	350	400‡	10	40-160	0.02	10	0.5	0.05	0.004				
2N4063■	350	-	10	40-160	0.02	10	0.5	0.05	0.004				
<b>2N3585 FAMILY (n-p-n)</b>			40W max	<b>Complementary to 2N6213 Family</b>									
BUX67	-	200	35	10-150	1	5	2.5	1	0.15			25	TP-213AA/ TO-66
2N3583	175	250‡	35	40 min.	0.1	10	5	1	0.125				
2N3584*	250	300‡	35	40 min.	0.1	10	0.75	1	0.125				
40318	-	300‡	35	50 min.	0.5	10	-	-	-				
40322	-	300‡	35	75 min.	0.5	10	-	-	-				
BUX67A	-	300	35	10-150	1	5	2.5	1	0.15				
BUX67B	-	350	35	10-150	1	5	2.5	1	0.15				
2N3585*	300	400‡	35	40 min.	0.1	10	0.75	1	0.125				
2N4240	300	400‡	35	30-150	1	10	1	0.75	0.075				
BUX67C	-	400	35	10-150	1	5	2.5	1	0.15				

\*JAN types available ‡ V<sub>CEV</sub>(sus) ■ 2N4063 - 2N3439 with flange □ 2N4064 - 2N3440 with flange