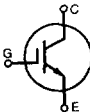
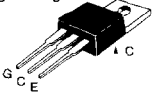

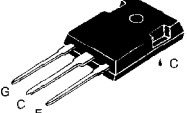

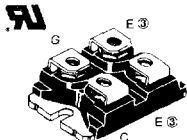
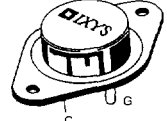
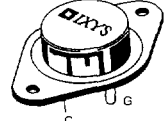


# Insulated Gate Bipolar Transistors (IGBT)

Ultra High Speed  
IGBTs = Suffix C



G series (high gain, high speed)

Type	V <sub>CE(sat)</sub>	I <sub>c</sub> T <sub>C</sub> = 25°C	I <sub>c</sub> T <sub>C</sub> = 90°C	V <sub>CE(sat)</sub> max.	C <sub>ies</sub> typ.	E <sub>off</sub> typ. T <sub>vj</sub> = 25°C	t <sub>fi</sub> typ. 25°C	R <sub>th(jc)</sub> max.	P <sub>C</sub> max. 25°C	Z <sub>th(jc)</sub> 25°C	Package style	
												V
<p>low V<sub>CE(sat)</sub></p> <p>T<sub>JM</sub> = 150°C</p> <p>▶ New</p>												
▶ IXGH 28N30	300	56	28	1.8	1500	0.8	0.18	0.83	150	6	Outlines on page 51,52  Fig. 3 <b>TO-220AB</b> Weight = 4 g 	
▶ IXGH 30N30		60	30	1.6	2500	1.0	0.18	0.62	200	6		
▶ IXGH 40N30		60	40	1.8	2500	1.6	0.23	0.62	200	6		
▶ IXGH 31N60	600	60	31	1.7	1500	6.0	0.4	0.83	150	6	Fig. 5a <b>TO-263AA</b> Weight = 2 g 	
IXGH 38N60		76	38	1.8	2500	9.0	0.5	0.62	200	6		
▶ IXGH 41N60		76	41	1.6	2750	8.0	0.45	0.62	200	6		
▶ IXGH 60N60		75	60	1.6	4000	8.0	0.5	0.50	250	6		
▶ IXGN 60N60		100	60	1.6	4000	8.0	0.5	0.50	250	12		
▶ IXGN 200N60		200	100	2.5	9000	14.4	0.35	0.21	600	12		
▶ IXGP 2N100	1000	3	1.5	3.5	80	0.25	0.8	5.0	25	3	Fig. 6 <b>TO-247 AD</b> Weight = 6 g 	
IXGA 12N100		24	12	3.5	750	2.5	1.0	1.25	100	5a		
IXGH 12N100										3		
IXGP 12N100										6		
IXGH 17N100		34	17	3.5	1500	3.0	0.75	0.83	150	6		
IXGM 17N100										13a		
IXGH 25N100		50	25	3.5	2750	5.0	0.5 ①	0.62	200	6		
IXGM 25N100										13a		
IXGH 25N120	1200	50	25	3.0	2750	11.0	1.2	0.62	200	6	Fig. 10 <b>TO-268</b> Weight = 4 g 	
▶ IXGH 28N30A	300	56	28	2.1	1500	0.5	0.12	0.83	150	6		
▶ IXGH 40N30A		60	40	2.1	2500	0.75	0.12	0.62	200	6		
▶ IXGH 40N30B		60	40	2.4	2500	0.3	0.075	0.62	200	6		
IXGH 24N50B	500	48	24	2.0	1500	0.62	0.08	0.83	150	6	Fig. 12 <b>SOT-227B min. 9LOC</b> Weight = 30 g 	
IXGH 32N50B		60	32	2.5	2500	0.7	0.08	0.62	200	6		
IXGH 50N50B		75	50	4.0	4000	1.8	0.50	0.50	250	6		
▶ IXGA 7N60B	600	14	7	1.8	500	0.35	0.15	2.3	54	5a	Fig. 13a <b>TO-204 AE</b> Weight = 12 g 	
▶ IXGP 7N60B		14								3		
▶ IXGA 20N60B		40	20	2.0	1500	0.7	0.15	0.83	150	5a		
▶ IXGP 20N60B										3		
▶ IXGH 20N60B										6		
IXGH 24N60A		48	24	2.7	1500	1.5	0.275	0.83	0.83	150		6
IXGH 24N60B												
▶ IXGH 30N60B		60	30	1.8	2500	1.3	0.13	0.62	200	6		6
▶ IXGT 30N60B												
IXGH 32N60A		60	32	2.9	2500	1.8	0.125	0.62	200	6		6
IXGH 32N60B	2.2										0.8	
▶ IXGH 39N60B	76	39	1.7	2750	4.0	0.2			6	6		
IXGH 40N60A	75	40	3.0	4500	3.0	0.3	0.50	250	6	6		
IXGM 40N60A												
IXGH 50N60A	75	50	2.7	4000	4.8	0.275	0.50	250	6	6		
▶ IXGH 50N60B											2.3	0.085
▶ IXGT 50N60B									10	6		
▶ IXGN 50N60B	75	50	2.3	4000	1.5	0.15	0.50	250	12	12		
IXGK 80N60A											80 *	80
IXGN 200N60A	200	100	2.7	9000	9.6	0.2	0.21	600	11	11		
▶ IXGP 2N100A	1000	3	1.5	4.0	80	0.25	0.4	5.0	25	3	Fig. 13a <b>TO-204 AE</b> Weight = 12 g 	
IXGA 12N100A		24	12	4.0	750	1.5	0.7	1.25	100	5		
IXGH 12N100A										3		
IXGP 12N100A										6		
IXGH 17N100A		34	17	4.0	1500	3.0	0.45	0.83	150	6		
IXGM 17N100A										13a		
IXGH 25N100A		50	25	4.0	2750	5.0	0.5	0.62	200	6		
IXGM 25N100A										13a		
IXGH 25N120A	1200	50	25	4.0	2750	11.0	0.6	0.62	200	6	① 125 °C ② T <sub>C</sub> = 110 °C * I <sub>c</sub> = limited by leads	
▶ IXGH 22N50C	500	44	22	2.5	1500	0.25	0.055	0.83	150	6		
▶ IXGA 7N60C	600	14	7	2.5	500	0.06	0.05	2.3	54	5a		
▶ IXGP 7N60C										3		
▶ IXGA 12N60C		24	12	2.7	860	0.09	0.055	1.25	100	5a		
▶ IXGP 12N60C										3		
▶ IXGH 32N60C		60	32 ②	2.5	2700	0.32	0.055	0.62	200	6	6	
▶ IXGT 32N60C												