

IGBTs



UltraFast™ IGBTs for Higher Frequency (10-30 kHz) Power Applications
High Efficiency—Optimized for Power Conversion

UltraFast (cont.)

Part Number	V _{CE(s)} Collector to Emitter Voltage (V)	Max V _{CE(on)} Collector to Emitter Saturation Voltage (V)	I _C Continuous Collector Current		P _D Max. Power Dissipation (W)	Circuit	Case Outline Number
			T _C = 25°C (A)	T _C = 100°C (A)			
Discretes (IGBT only)							
** IRGBC20K	600	3.5	10	6	60	Circuit A	IG1 TO-220AB
** IRGBC30K		3.5	21	12	100		
** IRGBC40K		2.2*	33	20	160		
** IRGPC20K		3.5	10	6	60		
** IRGPC30K		3.3	21	12	100		IG3 TO-247AC
** IRGPC40K		2.2*	33	20	160		
** IRGPC50K		2.7	52	30	200		
CoPack (IGBT + HEXFRED™ Diode - Circuit B)							
** IRGBC20KD2	600	3.5	10	6	60	Circuit B	IG1 TO-220AB
** IRGBC30KD2		3.5	21	12	100		
** IRGBC20KD2-S		3.5	10	6	60		IG2 SMD-220
** IRGBC30KD2-S		3.5	21	12	100		
** IRGPC20KD2		3.5	10	6	60		IG3 TO-247AC
** IRGPC30KD2**		3.5	21	12	100		
** IRGPC40KD2**		2.2*	33	20	160		
** IRGPC50KD2		2.7	52	30	200		
Modules							
CPV362MK	600	2.7	6	3.4	23	Circuit H	IG5 IMS-2
CPV363MK		2.5	10	6	36		
CPV364MK		2.6	20	10	62.5		
** IRGKIN050K06		2.7	55	20	240	Circuit F	IG7
** IRGKIN075K06		2.7	95	40	391		
** IRGKIN100K06		2.7	130	50	500		
** IRGKIN150K06		2.7	170	70	658		
** IRGNIN050K06		2.7	55	20	240	Circuit G	INT-A-Pak
** IRGNIN075K06		2.7	95	40	391		
** IRGNIN100K06		2.7	130	50	500		
** IRGNIN150K06		2.7	170	70	658		
** IRGTIN050K06		2.7	55	20	240	Circuit E	INT-A-Pak
** IRGTIN075K06		2.7	95	40	391		
** IRGTIN100K06		2.7	130	50	500		
** IRGTIN150K06		2.7	170	70	658		
** IRGDDN300K06		2.7	340	140	1563	Circuit C	IG9
** IRGDDN400K06		2.7	520	200	1984		
** IRGDDN600K06		2.7	680	280	2604		
** IRGRDN300K06	2.7	340	140	1563	Circuit D	Double INT-A-Pak	
** IRGRDN400K06	2.7	520	200	1984			
** IRGRDN600K06	2.7	680	280	2604			
** IRGTDN300K06	2.7	170	90	781	Circuit E	IG10	
** IRGTDN400K06	2.7	260	100	1000			
** IRGTDN600K06	2.7	340	140	1316			
Discretes (IGBT only)							
** IRGPH20K	1200	3.5	6	4	60	Circuit A	IG3 TO-247AC
** IRGPH30K		3.5	11	6.5	100		
** IRGPH40K		3.5	19	11	160		
** IRGPH50K		3.5	36	20	200		
CoPack (IGBT + HEXFRED™ Diode)							
** IRGPH20KD2	1200	3.5	6	20	60	Circuit B	IG3 TO-247AC
** IRGPH30KD2		3.5	11	20	100		
** IRGPH40KD2		3.5	19	20	160		
** IRGPH50KD2		3.5	36	20	200		

(1) For case outline drawing see page 0-2