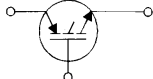
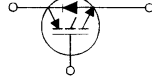
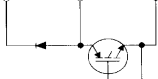

IGBT Designer's Manual

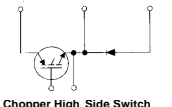
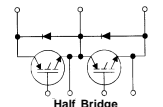
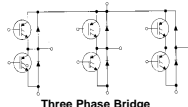
Selection Guide

**Insulated Gate BiPolar Transistors — IGBTs
and IGBT / UltraFast™ Diodes — CoPack
Discrete and Module Types**

Current Rating A	 Single Switch (without Diode)				 Single Switch (with Diode)				 Chopper Low Side Switch			
	Voltage Rating -V											
	500	600	900	1200	500	600	1200	600	1200			
5-10		<i>IRGBC20K</i> <i>IRGPC20K</i> <i>IRGBC20K-S</i>	IRGBF20F IRGPF20F	<i>IRGPH20M</i> <i>IRGPH20S</i>		<i>IRGBC20KD2</i> <i>IRGBC20KD2-S</i> <i>IRGPC20KD2</i>						
11-15	IRGB420U IRGP420U	<i>IRGBC20M</i> <i>IRGBC20M-S</i> <i>IRGPC20M</i> <i>IRGBC20U</i> <i>IRGPC20U</i>			IRGB420UD2 IRGP420UD2	<i>IRGBC20MD2</i> <i>IRGBC20MD2-S</i> <i>IRGPC20MD2</i> <i>IRGBC20UD2</i>	<i>IRGPH30MD2</i>					
16-20		IRGBC20F IRGPC20F IRGBC20S	IRGBF30F IRGPF30F			IRGBC20FD2						
21-25	IRGB430U IRGP430U	<i>IRGBC30K</i> <i>IRGBC30K-S</i> <i>IRGPC30K</i> <i>IRGBC30U</i> <i>IRGPC30U</i>		IRGPH30S	IRGB430UD2 IRGP430UD2	<i>IRGBC30KD2</i> <i>IRGBC30KD2-S</i> <i>IRGPC30KD2</i> <i>IRGBC30UD2</i> <i>IRGPC30UD2</i>						
26-30		<i>IRGBC30M</i> <i>IRGBC30M-S</i> <i>IRGPC30M</i>		IRGPH40F		<i>IRGBC30MD2</i> <i>IRGBC30MD2-S</i> <i>IRGPC30MD2</i>	IRGPH40FD2					
31-40	IRGB440U IRGP440U	IRGBC30F IRGPC30F IRGBC30S <i>IRGBC40M</i> <i>IRGBC40M-S</i> <i>IRGPC40M</i> <i>IRGBC40U</i> <i>IRGPC40U</i>	IRGPF40F	<i>IRGPH40M</i> <i>IRGPH40S</i> <i>IRGPH50K</i>	IRGP440UD2	IRGBC30FD2 IRGPC30FD2 <i>IRGPC40MD2</i> <i>IRGPC40UD2</i>	<i>IRGPH40MD2</i> <i>IRGPH50KD2</i>					
41-50		<i>IRGBC40K</i> <i>IRGBC40K</i> <i>IRGBC40F</i> <i>IRGPC40F</i> <i>IRGPC40K-S</i> <i>IRGPC40S</i> <i>IRGBC40S</i>		IRGPH50F <i>IRGPH50M</i>		IRGPC40FD2 <i>IRGPC40KD2</i>	IRGPH50FD2 <i>IRGPH50MD2</i>	IRGKI050U06				
51-60	IRGP450U	<i>IRGPC50K</i> <i>IRGPC50M</i> <i>IRGPC50U</i>	IRGPF50F	IRGPH50S	IRGP450UD2	<i>IRGPC50KD2</i> <i>IRGPC50MD2</i> <i>IRGPC50UD2</i>		<i>IRGKI050K06</i> <i>IRGKI050M06</i>		<i>IRGKI025M12</i>		
61-70		IRGPC50F IRGPC50S				IRGPC50FD2		IRGKI065F06				
71-100								IRGKI090U06 <i>IRGKI075K06</i> IRGKI120F06		<i>IRGKI050M12</i>		
101-125								IRGKI120F06 <i>IRGKI075M06</i>				
126-150								<i>IRGKI100K06</i> <i>IRGKI100M06</i> IRGKI115U06		<i>IRGKI075M12</i>		
151-175								IRGKI140U06 IRGKI165F06 IRGKI165F06 <i>IRGKI150K06</i>		<i>IRGKI100M12</i>		
176-200								IRGKI200F06 <i>IRGKI150M06</i>				
201-300												
301-400						<i>IRGDDN300K06</i> <i>IRGRDN300K06</i> <i>IRGDDN300M06</i> <i>IRGRDN300M06</i>	<i>IRGDDN400M12</i> <i>IRGDDN400M12</i>					
401-600						<i>IRGDDN400K06</i> <i>IRGRDN400K06</i> <i>IRGDDN400M06</i> <i>IRGRDN400M06</i>	<i>IRGDDN200M12</i> <i>IRGDDN200M12</i> <i>IRGDDN300M12</i> <i>IRGRDN300M12</i>					
601-1000						<i>IRGDDN600K06</i> <i>IRGRDN600K06</i> <i>IRGDDN600M06</i> <i>IRGRDN600M06</i>						

Part Numbers in italics are Short Circuit Protected

International IOR Rectifier

Current Rating A	Voltage Rating -V			600
	600	1200	1200	
				
Chopper High Side Switch	Half Bridge	Three Phase Bridge		
5-10				CPV362MU CPV362MK CPV362MF CPV362MM
11-15				CPV363MK CPV363MU CPV363MM
16-20				CPV363MF CPV364MM CPV364MU CPV364MK
21-25				CPV364MF
26-30				CPV364MF
31-40			CPU165MU CPU165MK	
41-50	IRGNI050U06	IRGNIN025M12	CPU165MF CPU165MM IRGTI050U06	IRGTIN025M12
51-60	IRGNIN050K06 IRGNIN050M06		IRGTIN050K06 IRGTIN050M06	
61-70	IRGNI065F06		IRGTI065F06	
71-100	IRGNI090U06 IRGNIN075K06	IRGNIN050M12	IRGTI090U06 IRGTIN075K06	IRGTIN050M12
101-125	IRGNI120F06 IRGNIN075M06 IRGNI120F06		IRGTIN075M06 IRGTI120F06	
126-150	IRGNIN100K06 IRGNIN100M06 IRGNI115U06	IRGNIN075M12	IRGTIN100K06 IRGTIN100M06 IRGTI115U06	IRGTIN075M12
151-175	IRGNI140U06 IRGNIN150K06 IRGNI165F06	IRGNIN100M12	IRGTI140U06 IRGTI165F06 IRGTIN150K06 IRGTDN150K06	IRGTIN100M12
176-200	IRGNIN150M06 IRGNI200F06 IRGTDN150M06		IRGTIN150M06 IRGTI200F06 IRGTDN150M06	
201-300			IRGTDN200K06 IRGTDN200M06	IRGTDN100M12 IRGTDN150M12
301-400			IRGTDN300K06 IRGTDN300M06	
401-600				
601-1000				