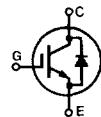


Discrete IGBTs with FRED Diode

Ultra High Speed
IGBTs = Suffix C



G series

V_{CES} min V	$I_{C(25)}$ A	$V_{CE(SAT)}$ max V	t_{tr} typ ns	TO-220 (P)  TO-263 (A) 	PLUS247™ (X)  TO-247 (H) 	TO-268 (T)  TO-204 (M) 	ISOPLUS247™ (R)  TO-264 (K) 	SOT-227B (N) 
New								
LOW SATURATION VOLTAGE TYPES								
600	40	2.0	200		IXGH28N60D1	IXGT28N60D1		
	60	1.7	400		IXGH31N60D1	IXGT31N60D1		
	75	1.7	200		IXGH39N60BD1		IXGR60N60U1	
	75	1.7	500					
1000	20	3.5	1000	IXGA12N100U1	IXGH12N100U1			
	20	3.5	1000	IXGP12N100U1				
	34	3.5	750		IXGH17N100U1			
	50	3.5	500		IXGH25N100U1			
HIGH SPEED TYPES								
300	60	2.4	75		IXGH40N30BD1			
600	24	2.0	120		IXGH12N60BD1			
	40	2.7	160	IXGA12N60CD1 IXGP12N60CD1	IXGH12N60CD1			
	40	2.7	160		IXGH20N60BU1	IXGT20N60BD1		
	40	2.0	100		IXGH20N60BD1			
	40	2.0	100				IXGR32N60CD1	
	45	2.5	55					
	48	2.5	80		IXGH24N60BD1	IXGT24N60CD1	IXGR24N60CD1	
	48	2.5	55		IXGH24N60CD1			
	60	1.8	130		IXGH30N60BU1	IXGT32N60BD1		
	60	1.8	130		IXGH30N60BD1			
	60	2.9	125		IXGH32N60AU1			
	60	2.3	80		IXGH32N60BD1			
	60	2.3	80		IXGH32N60BU1			
	60	2.5	55		IXGH32N60CD1			
	75	1.7	200		IXGH39N60CD1		IXGK50N60AU1 IXGK50N60BU1 IXGK50N60BD1	IXGN50N60BD2 IXGN50N60BD3
	75*	2.7	275		IXGX50N60AU1			
	75*	2.7	150					
	75*	2.7	150					
	75*	2.7	150					
	75*	2.7	150					
1000	20	4.0	500	IXGA12N100AU1	IXGH12N100AU1			
	20	4.0	500	IXGP12N100AU1				
	34	4.0	450		IXGH17N100AU1			
	50	4.0	600		IXGH25N100AU1			
1200	30	3.8	115		IXGH15N120CD1	IXGT15N120CD1		
	30	3.2	160		IXGH15N120BD1	IXGT15N120BD1		
	50	4.0	600		IXGH25N120AU1			

* - Lead terminal current limit.

IGBT/Diode circuit connections:

_U1 & _D1: Ultrafast FRED or HiPerFRED diode respectively connected anti-parallel to IGBT

_D2: Ultrafast HiPerFRED Diode anode connected to IGBT collector (Boost configuration)

_D3: Ultrafast HiPerFRED Diode cathode connected to IGBT emitter (Buck configuration)

Outline drawings on page 72 - 79.