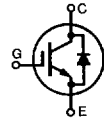


Discrete IGBT with Fast Diode

IGBT/Diode Combi-Pack

S series with SCSOA capability

Ultra High Speed
IGBTs = Suffix C



V_{CES} min V	$I_{CP(S)}$ A	V_{CESAT} max V	t_{tr} typ ns	TO-247(H) PLUS247™ (X) Case style	TO-268AA (T) ISOPLUS247™ (R) Case style	TO-264 (K) Case style	SOT-227B (N) Case style
LOW SATURATION VOLTAGE TYPES							
600	48	2.0	170	▶ IXSH24N60BD1			
	50	2.5	400	IXSH30N60U1*			
	90	2.5	400				IXSN62N60U1
1000	34	3.5	1000				IXSN35N100U1*
HIGH SPEED							
600	48	2.5	300	IXSH24N60AU1			
	55	2.0	140	IXSH30N60BD1	IXST30N60BD1	IXSK30N60BD1	
	55	2.5	70	IXSH30N60CD1	IXST30N60CD1	IXSK30N60CD1	
	62	2.5	70		IXSR40N60CD1	IXSK40N60CD1	
	70	2.2	120		IXSR40N60BD1	IXSK40N60BD1	
	75	2.5	70	IXSX40N60CD1		IXSK40N60CD1	IXSN50N60BD2 IXSN50N60BD3
	75	2.2	120	IXSX40N60BD1		IXSK40N60BD1	
	75	2.7	400			IXSK50N60AU1*	
	75	2.5	150	IXSX50N60BD1		IXSK50N60BD1	
	75	2.5	150	IXSX50N60BU1		IXSK50N60BU1	
	75	2.5	150				
	75	2.5	150				
	80	2.0	200				IXSN52N60AU1*
**100	2.5	180				IXSN80N60BD1	
1200	30	3.4	150	IXSH15N120BD1	IXST15N120BD1		
	50	4.0	650	IXSH25N120AU1*			
	70	4.0	500	IXSX35N120AU1*	IXSR35N120BD1	IXSK35N120AU1*	IXSN35N120AU1*
	70	3.6	180	IXSX35N120BD1		IXSK35N120BD1	

* Not for new design ** Lead terminal current limited

IGBT/diode circuit connections

_U1 and _D1: Ultrafast FRED or HiPerFRED diode respectively connected in antiparallel to IGBT

_U2 and _D2: Ultrafast FRED or HiPerFRED diode anode connected to IGBT drain (boost configuration).

_U3 and _D3: Ultrafast FRED or HiPerFRED diode cathode connected to IGBT emitter (buck configuration).

Outline drawings on page 91-100.