



IXX...  
IXY...

IXX...D1/H1  
IXY...D1/H1

## 600 V XPT™ Planar IGBTs XPT = Xtreme light Punch Through, short-circuit rated IGBTs

Part Number	V <sub>CE(S)</sub> V	I <sub>C25</sub>	I <sub>C110</sub>	V <sub>CE(sat)</sub>	t <sub>fi</sub> typ.	E <sub>off</sub> typ.	R <sub>thJC</sub>	Diode	I <sub>F110</sub> Diode T <sub>C</sub> = 110°C	R <sub>thJC</sub> max. Diode	P <sub>C</sub> W	Fig. No.	Package style Outline drawings on pages O-36...O-59	
		T <sub>C</sub> = 25°C A	T <sub>C</sub> = 110°C A	T <sub>C</sub> = 25°C V	T <sub>J</sub> = 150°C ns	T <sub>J</sub> = 150°C mJ	A		K/W					
<b>B3 Class (5-30 kHz switching)</b>														
IXXQ 30N60B3M	600	33	19	1.85	180	0.70	1.660				90	X017c	X005a	<b>TO-220AB</b> 
IXXH 30N60B3		60	30	1.85	180	0.70	0.550				270	X014a		
IXXH 30N60B3D1		60	30	1.85	180	0.70	0.550	•	30	0.90	270	X014a		
IXXA 50N60B3		120	50	1.80	190	1.20	0.250				600	X011b		
IXXH 50N60B3		120	50	1.80	190	1.20	0.250				600	X014a		
IXXH 50N60B3D1		120	50	1.80	190	1.20	0.250	•	30	0.90	600	X014a		
IXXP 50N60B3		120	50	1.80	190	1.20	0.250				600	X005a		
IXXR 100N60B3H1		145	68	1.80	200	2.80	0.310	•	-	0.62	400	X016a	X011b	<b>TO-263AB</b> 
IXXH 75N60B3		160	75	1.85	170	2.20	0.200				750	X014a		
IXXH 75N60B3D1		160	75	1.85	170	2.20	0.200	•	30	0.90	750	X014a		
IXXN 100N60B3H1		170	100 (90°C)	1.80	200	2.80	0.250	•	50	0.42	500	X027a		
IXXK 100N60B3H1		200	100 (100°C)	1.80	200	2.80	0.180	•	65	0.30	695	X020a		
IXXN 200N60B3H1		200	98	1.70	215	3.45	0.160	•	30	0.70	780	X027a		
IXXX 100N60B3H1		200	100 (100°C)	1.80	200	2.80	0.180	•	65	0.30	695	X015a	X014a	<b>TO-247AD</b> 
IXXH 100N60B3		220	100	1.80	200	2.80	0.180				830	X014a		
IXXN 200N60B3		280	160	1.70	215	3.45	0.160				940	X027a		
IXXK 200N60B3		380	200	1.70	215	3.45	0.092				1630	X020a		
IXXX 200N60B3		380	200	1.70	215	3.45	0.092				1630	X015a		
IXXK 300N60B3		550	300	1.60	200	3.70	0.065				2300	X020a		
IXXX 300N60B3		550	300	1.60	200	3.70	0.065				2300	X015a		
<b>C3 Class (20-60 kHz switching)</b>														
IXXH 30N60C3	600	60	30	2.20	32	0.40	0.550				270	X014a	X015a	<b>PLUS247</b> 
IXXH 30N60C3D1		60	30	2.20	78	0.40	0.550	•	30	0.90	270	X014a		
IXXH 50N60C3		100	50	2.30	90	0.48	0.250				600	X014a		
IXXH 50N60C3D1		100	50	2.30	90	0.48	0.250	•	30	0.90	600	X014a		
IXXH 75N60C3		150	75	2.30	80	1.07	0.200				750	X014a		
IXXH 75N60C3D1		150	75	2.30	80	1.07	0.200	•	30	0.90	750	X014a		
IXXK 100N60C3H1		170	100 (90°C)	2.20	115	1.40	0.180	•	65	0.30	695	X020a		
IXXX 100N60C3H1		170	100 (90°C)	2.20	115	1.40	0.180	•	65	0.30	695	X015a	X016a	<b>ISOPLUS247™</b> 
IXXH 100N60C3		190	100	2.20	115	1.40	0.180				830	X014a		
IXXN 200N60C3H1		200	98	2.10	90	2.10	0.160	•	30	0.70	780	X027a		
IXXK 200N60C3		340	200	2.10	90	2.10	0.092				1630	X020a		
IXXX 200N60C3		340	200	2.10	90	2.10	0.092				1630	X015a		
IXXK 300N60C3		510	300	2.00	90	2.35	0.065				2300	X020a		
IXXX 300N60C3		510	300	2.00	90	2.35	0.065				2300	X015a		

X027a **SOT-227B miniBLOC**



X020a **TO-264**



X017c **TO-3PFP**

