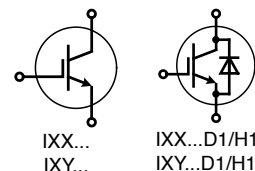


## 650V XPT™ Planar IGBTs XPT = Xtreme light Punch Through, short-circuit rated IGBTs



Part Number	V <sub>CES</sub>	I <sub>C25</sub> T <sub>C</sub> = 25°C	I <sub>C110</sub> T <sub>C</sub> = 110°C	V <sub>CE(sat)</sub> T <sub>C</sub> = 25°C	t <sub>fi</sub> typ. T <sub>J</sub> = 150°C	E <sub>off</sub> typ. T <sub>J</sub> = 150°C	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>	Fig. No.	Package style
➤ New	V	A	A	V	ns	mJ	K/W		A	K/W	W		Outline drawings on pages O-36...O-59
<b>A3 Class (up to 5kHz switching)</b>													
IXYN 100N65A3	650	170	100	1.80	160	2.40	0.25				600	X027a	X005a <b>TO-220AB</b>
IXYH 100N65A3		240	100	1.80	225	3.70	0.18				470	X014a	
IXYN 300N65A3		470	300	1.60	175	7.30	0.10				1500	X027a	
IXYK 300N65A3		600	300	1.60	175	7.30	0.065				2300	X020a	
IXYX 300N65A3		600	300	1.60	175	7.30	0.065				2300	X015a	
<b>B3 Class (10-30 kHz switching)</b>													
IXYP 10N65B3D1	650	32	19	1.95	116	0.36	0.94	•	9	2.30	160	X005a	X011b <b>TO-263AB</b>
IXYA 20N65B3		58	20	2.10	147	0.76	0.65				230	X011b	
IXYH 20N65B3		58	20	2.10	147	0.76	0.65				230	X014a	
IXYP 20N65B3		58	20	2.10	147	0.76	0.65				230	X005a	
IXYP 20N65B3D1		58	20	2.10	147	0.76	0.65	•	23	1.85	230	X005a	
IXYQ 30N65B3D1		70	30	2.10	93	1.00	0.55	•	50	0.60	270	X017a	X011c <b>TO-263ABHV</b>
IXYH 30N65B3D1		70	30	2.10	93	1.00	0.55	•	50	0.60	270	X014a	
IXYH 40N65B3		86	40	2.00	174	1.15	0.50				300	X014a	
IXYQ 40N65B3D1		86	40	2.00	174	1.15	0.50	•	50	0.60	300	X017a	
IXYH 40N65B3D1		86	40	2.00	174	1.15	0.50	•	50	0.60	300	X014a	
IXYN 100N65B3D1		185	100	1.85	160	2.16	0.25	•	67	0.40	600	X027a	X014a <b>TO-247AD</b>
IXYH 100N65B3		225	100	1.85	160	2.16	0.18				830	X014a	
IXYK 100N65B3D1		225	100	1.85	160	2.16	0.18	•	67	0.36	830	X020a	
IXYX 100N65B3D1		225	100	1.85	160	2.16	0.18	•	67	0.36	830	X015a	
IXYN 120N65B3D1		250	120	1.90	196	2.20	0.18	•	86	0.38	830	X027a	
IXYH 120N65B3		340	120	1.90	196	2.20	0.11					X014a	
IXYK 200N65B3		410	200	1.70	230	5.60	0.096					X020a	
IXYX 200N65B3		410	200	1.70	230	5.60	0.096					X015a	X015a <b>PLUS247</b>
<b>C3 Class (20-60 kHz switching)</b>													
IXYP 10N65C3	650	30	10	2.50	38	0.15	0.94				160	X005a	
IXYP 10N65C3D1		30	10	2.50	38	0.15	0.94	•	23	1.85	160	X005a	
IXYA 15N65C3D1		38	15	2.50	42	0.24	0.75	•	23	1.85	200	X011b	
IXYP 15N65C3		38	15	2.50	42	0.24	0.75				200	X005a	
IXYP 15N65C3D1		38	15	2.50	42	0.24	0.75	•	23	1.85	200	X005a	X017a <b>TO-3P</b>
IXYA 20N65C3		50	20	2.50	36	0.40	0.65				230	X011b	
IXYA 20N65C3D1		50	20	2.50	36	0.40	0.65	•	18	1.85	200	X011b	
IXYH 20N65C3		50	20	2.50	36	0.40	0.65				230	X014a	
IXYP 20N65C3D1		50	20	2.50	36	0.40	0.65	•	18	1.85	200	X005a	
IXYH 30N65C3H1		60	30	2.70	30	0.41	0.55	•	29	0.80	270	X014a	
IXYH 30N65C3		60	30	2.70	30	0.41	0.55				270	X014a	
IXYT 30N65C3H1HV		60	30	2.70	30	0.41	0.55	•	29	0.80	270	X019a	X019a <b>TO-268AAHV</b>
IXYP 30N65C3		60	30	2.70	30	0.41	0.55				270	X005a	
IXYQ 40N65C3D1		80	40	2.35	30	0.53	0.50	•	50	0.60	300	X017a	
IXYH 40N65C3		80	40	2.35	30	0.53	0.50				300	X014a	
IXYH 40N65C3H1		80	40	2.35	80	0.46	0.50	•	40	0.60	300	X014a	
IXYH 40N65C3D1		80	40	2.35	30	0.53	0.50	•	50	0.60	300	X014a	
IXYH 50N65C3H1		130	50	2.10	42	0.56	0.25	•	40	0.60	600	X014a	X020a <b>TO-264</b>
IXYP 50N65C3		132	50	2.10	32	0.70	0.25				600	X005a	
IXYH 50N65C3D1		132	50	2.10	32	0.70	0.25	•	50	0.60	600	X014a	
IXYH 50N65C3		132	50	2.10	32	0.70	0.25				600	X014a	
IXYA 50N65C3		132	50	2.10	32	0.70	0.25				600	X011b	
IXYN 75N65C3D1		150	75	2.30	64	1.30	0.25	•	60	0.52	600	X027a	
IXYN 100N65C3H1		160	90	2.30	66	1.15	0.25	•	50	0.42	600	X027a	X027a <b>SOT-227B</b>
IXYH 75N65C3H1		170	75	2.30	58	1.30	0.20	•	62	0.45	750	X014a	
IXYH 75N65C3		175	75	2.30	64	1.30	0.20				750	X014a	
IXYH 75N65C3D1		175	75	2.30	64	1.30	0.20	•	62	0.45	750	X014a	<b>miniBLOC</b>
IXYN 120N65C3D1		190	100	2.80	60	0.70	0.18	•	72	0.38	830	X027a	
IXYX 100N65C3D1		200	100	2.30	66	1.15	0.18	•	67	0.36	830	X015a	
IXYH 100N65C3		200	100	2.30	66	1.15	0.18				830	X014a	
IXYK 100N65C3D1		200	100	2.30	66	1.15	0.18	•	67	0.36	830	X020a	
IXYH 120N65C3		260	120	2.80	60	0.70	0.11					X014a	