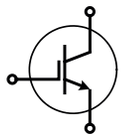
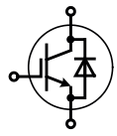


IXX...
IXY...



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

900/1200 V XPT™ Planar IGBTs

Part Number	V_{CES} V	I_{C25} T_C = 25°C A	I_{C110} T_C = 110°C (90°C) A	$V_{CE(sat)}$ T_C = 25°C V	t_{fi} typ. T_J = 125°C (150°C) ns	E_{off} typ. T_J = 125°C (150°C) mJ	R_{thJC} K/W	Diode	I_{F110} Diode T_C = 110°C A	R_{thJC} max. Diode K/W	P_C W	Fig. No.
C3 Class (20-50 kHz switching)												
IXYA 8N90C3D1	900	20	8	2.5	163	0.22	1.20	•	12	2.5	125	X011b
IXYP 8N90C3		20	8	2.5	163	0.22	1.20				125	X007a
IXYP 8N90C3D1		20	8	2.5	163	0.22	1.20	•	12	2.5	125	X007a
IXYY 8N90C3		20	8	2.5	163	0.22	1.20				125	X004
IXYH 24N90C3		44	24	2.7	130	0.55	0.62				240	X014a
IXYH 24N90C3D1		44	-24	2.7	130	0.55	0.62	•	15	1.6	200	X014a
IXYH 40N90C3D1		90	40	2.5	150	1.2	0.25	•	25	0.9	500	X014a
IXYH 40N90C3		105	40	2.5	150	1.2	0.25				600	X014a
IXYN 80N90C3H1		115	-70	2.7	-98	-2.5	0.25	•	42	0.42	500	X027a
IXYH 60N90C3		140	60	2.7	-165	-2.15	0.20				750	X014a
IXYH 80N90C3		165	80	2.7	-98	-2.5	0.18				830	X014a
IXYT 80N90C3		165	80	2.7	-98	-2.5	0.18				830	X019
IXYK 140N90C3		310	140	2.7	-125	-5	0.092				1630	X020a
IXYX 140N90C3		310	140	2.7	-125	-5	0.092				1630	X015a
B3 Class (5-30 kHz switching)												
IXYH 40N120B3D1	1200	86	40	2.9	206	2.05	0.26	•	25	0.9	480	X014a
IXYH 40N120B3		96	40	2.9	206	2.05	0.26				577	X014a
IXYN 100N120B3H1		165	76	2.6	° 260	10.1 °	0.18	•	42	0.42	690	X027a
IXYK 100N120B3		225	100	2.6	° 260	10.1 °	0.13				1150	X020a
IXYX 100N120B3		225	100	2.6	° 260	10.1 °	0.13				1150	X015a
IXYK 120N120B3		320	120	2.2	° 406	27.9 °	0.10				1500	X020a
IXYX 120N120B3		320	120	2.2	° 407	27.9 °	0.10				1500	X015a
C3 Class (20-50 kHz switching)												
IXYH 20N120C3D1	1200	36	17	3.4	° 105	0.7 °	0.54	•	23	0.90	230	X014a
IXYT 20N120C3D1HV		36	17	3.4	° 105	0.7 °	0.54	•	23	0.90	230	X019a
IXYA 20N120C3HV		40	20	3.4	° 105	0.7 °	0.54				278	X011c
IXYH 20N120C3		40	20	3.4	° 105	0.7 °	0.54				278	X014a
IXYP 20N120C3		40	20	3.4	° 105	0.7 °	0.54				278	X005a
IXYR 50N120C3D1		56	* 32	4.0	° 60	1.4 °	0.43	•	25	0.90	290	X016a
IXYH 30N120C3D1		66	30	4.0	88	0.9	0.30	•	25	0.90	416	X014a
IXYH 30N120C3		75	30	3.3	° 140	1.6 °	0.30				500	X014a
IXYP 30N120C3		75	30	3.3	° 140	1.6 °	0.30				500	X005a
IXYH 40N120C3D1		80	* 40	3.5	° 143	2.1 °	0.26	•	25	0.90	480	X014a
IXYH 40N120C3		90	40	3.5	° 143	2.1 °	0.26				577	X014a
IXYH 50N120C3D1		90	**50	4.0	° 60	1.4 °	0.20	•	25	0.90	625	X014a
IXYH 50N120C3		100	50	3.5	60	1.4	0.20				750	X014a
IXYR 100N120C3		104	58	3.5	125	3.55	0.31				484	X016a
IXYN 82N120C3H1		105	46	3.2	95	3.7	0.25	•	42	0.42	500	X027a
IXYN 82N120C3		120	66	3.2	95	3.7	0.25				600	X027a
IXYN 100N120C3H1		134	62	3.5	125	3.55	0.18	•	42	0.42	690	X027a
IXYN 100N120C3		152	86	3.5	125	3.55	0.18				830	X027a
IXYB 82N120C3H1		164	82	3.2	95	3.7	0.12	•	42	0.35	1040	X021a
IXYK 100N120C3		188	100	3.5	125	3.55	0.13					X020a
IXYX 100N120C3		188	100	3.5	125	3.55	0.13					X015a
IXYH 82N120C3		200	82	3.2	95	3.7	0.12					X014a
IXYK 120N120C3		240	120	3.2	° 120	7.2 °	0.10				1500	X020a
IXYX 120N120C3		240	120	3.2	° 120	7.2 °	0.10				1500	X015a
IXYN 120N120C3		240	120	3.2	° 120	7.2 °	0.125				1200	X027a

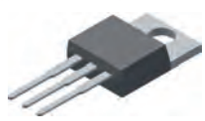
* T_C = 90°C ** T_C = 100°C ° T_J = 150°C

Package style

Outline drawings on pages O-36...O-59

X004 **TO-252AA**

X005a **TO-220AB**



X007a **TO-220ABFP**

X011b **TO-263AB**

X011c **TO-263ABHV**

X014a **TO-247AD**

X015a **PLUS247**

X016a **ISOPLUS247™**

X019 **TO-268AA**

X019a **TO-268AAHV**

X020a **TO-264**