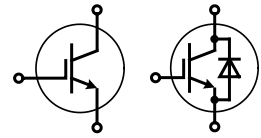
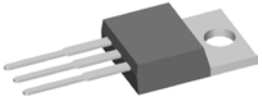


# Discrete XPT / NPT IGBT




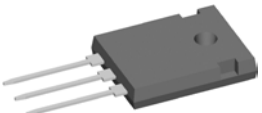


## XPT IGBT

XPT IGBT = Xtreme light Punch Through, short-circuit rated IGBTs with paralleling capabilities


Type	V <sub>CES</sub>	I <sub>C25</sub> IGBT T <sub>C</sub> = 25°C	I <sub>C90</sub> IGBT T <sub>C</sub> = 90°C	V <sub>CESat</sub> typ IGBT T <sub>J</sub> = 25°C	E <sub>off</sub> IGBT T <sub>J</sub> = 125°C	R <sub>thJC</sub> IGBT	Diode	I <sub>F90</sub> diode T <sub>C</sub> = 90°C	Fig. No.	Package style
➤ New	V	A	A	V	mJ	K/W		A		Outline drawings on pages O-30...O-52
<b>1200 V XPT IGBT</b>										
➤ IXA12IF1200PB	1200	21	12	1.8	1.1	1.50	●	22	X005a	X005a <b>TO-220AB</b> Weight = 4 g 
➤ IXA17IF1200HJ		27	17	1.8	2.0	1.26	●	22	X016a	
➤ IXA20I1200PB		32	20	1.8	2.6	0.95			X005a	
➤ IXA37IF1200HJ		57	37	1.8	4.4	0.64	●	29	X016a	
➤ IXA45IF1200HB		68	45	1.8	4.4	0.48	●	29	X014a	
➤ IXA55I1200HJ		84	55	1.8	6.0	0.43			X016a	

## NPT IGBT

NPT IGBT = Non-Punch Through insulated gate bipolar transistor, square RBSOA, short circuit rated

Type	V <sub>CES</sub>	I <sub>C25</sub> IGBT T <sub>C</sub> = 25°C	I <sub>C90</sub> IGBT T <sub>C</sub> = 90°C	V <sub>CESat</sub> typ IGBT T <sub>J</sub> = 25°C	E <sub>off</sub> IGBT T <sub>J</sub> = 125°C	R <sub>thJC</sub> IGBT	Diode	I <sub>F90</sub> diode T <sub>C</sub> = 90°C	Fig. No.	Package style
➤ New	V	A	A	V	mJ	K/W		A		
IXDP 20N60B	600	32	20	2.2	0.4	0.90			X005a	X011b <b>TO-263AB</b> Weight = 2 g 
IXDP 20N60BD1		32	20	2.2	0.4	0.90	●	14	X005a	
IXDP 35N60B		60	35	2.1	0.8	0.50			X005a	X014a <b>TO-247AD</b> Weight = 6 g 
IXDH 35N60B		60	35	2.1	0.8	0.50			X014a	
IXDH 35N60BD1		60	35	2.1	0.8	0.50	●	21	X014a	
IXDR 35N60BD1		60	24	2.1	0.8	1.00	●	18	X016a	
IXDA 20N120AS	1200	34	25	2.8	2.4	0.63			X011b	
IXDH 20N120		38	25	2.4	2.4	0.63			X014a	
IXDH 20N120D1		38	25	2.4	2.4	0.63	●	20	X014a	X016a <b>ISOPLUS247™</b> Weight = 5 g 
IXDH 30N120		60	38	2.4	3.4	0.42			X014a	
IXDH 30N120D1		60	38	2.4	3.4	0.42	●	35	X014a	
IXDR 30N120		50	30	2.4	3.4	0.60			X016a	
IXDR 30N120D1		50	30	2.4	3.4	0.60	●	27	X016a	
IXDN 55N120D1		100	62	2.3	6.2	0.28	●	60	X027a	
IXDN 75N120		150	95	2.2	10.5	0.19			X027a	

## 3<sup>rd</sup> Generation NPT<sup>3</sup> IGBT lower V<sub>CESat</sub>

➤ IXER 20N120	1200	29	19	2.4	1.5	0.96			X016a	X027a <b>SOT-227B miniBLOC</b> Weight = 30 g 
➤ IXER 20N120D1		29	19	2.4	1.5	0.96	●	15	X016a	
IXEH 25N120		36	24	2.6	2.5	0.63			X014a	
IXEH 25N120D1		36	24	2.6	2.5	0.63	●	20	X014a	
IXER 35N120D1		50	32	2.2	2.6	0.60	●	25	X016a	
IXEH 40N120		60	40	2.4	3.0	0.42			X014a	
IXEH 40N120D1		60	40	2.4	3.0	0.42	●	35	X014a	
IXER 60N120		95	60	2.1	4.8	0.33			X016a	
IXEN 60N120		100	65	2.1	4.8	0.28			X027a	
IXEN 60N120D1		100	65	2.1	4.8	0.28	●	60	X027a	