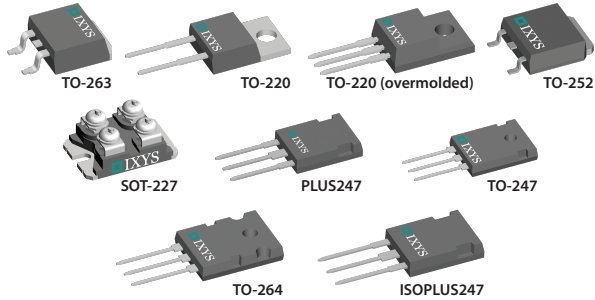


650V Ultra Junction X2-Class POWER MOSFETs

Ideal for Power Factor Correction (PFC) circuits and switching power supplies



Features:

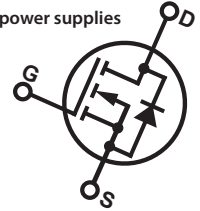
- Low $R_{DS(on)}$ and Q_g
- dv/dt ruggedness
- Avalanche rated
- Low package inductance
- International standard packages

Advantages:

- Higher efficiency
- High power density
- Easy to mount
- Space savings

Applications:

- Power Factor Correction (PFC) circuits
- Switched-mode and resonant mode power supplies
- DC-DC converters
- AC and DC motor drives
- Robotic and servo control
- Solar inverters
- Lighting control



Available Parts

Part Number	V_{DS} (V)	I_{D25} $T_C = 25^\circ\text{C}$ (A)	$R_{DS(on)}$ max $T_C = 25^\circ\text{C}$ (Ω)	C_{iss} typ (pF)	$Q_{g(soc)}$ typ (nC)	t_r typ (ns)	$R_{th(jc)}$ max ($^\circ\text{C}/\text{W}$)	P_D max (W)	Package Type
IXTY2N65X2	650	2	2.3	180	4.3	137	2.27	55	TO-252
IXTP2N65X2	650	2	2.3	180	4.3	137	2.27	55	TO-220
IXTP4N65X2	650	4	0.85	455	8.3	160	1.56	80	TO-220
IXTP8N65X2M	650	4	0.55	800	12	200	3.9	32	TO-220 (overmolded)
IXTY4N65X2	650	4	0.85	455	8.3	160	1.56	80	TO-252
IXTA4N65X2	650	4	0.85	455	8.3	160	1.56	80	TO-263
IXTY8N65X2	650	8	0.5	800	12	200	0.83	150	TO-252
IXTA8N65X2	650	8	0.5	800	12	200	0.83	150	TO-263
IXTP8N65X2	650	8	0.5	800	12	200	0.83	150	TO-263
IXTA12N65X2	650	12	0.3	1100	17	220	0.69	180	TO-263
IXTH12N65X2	650	12	0.3	1100	17	220	0.69	180	TO-247
IXTP12N65X2	650	12	0.3	1100	17	220	0.69	180	TO-220
IXTH34N65X2	650	34	0.105	3120	53	400	0.22	540	TO-247
IXTH8N65X2	650	48	0.068	4420	77	400	0.19	660	TO-247
IXTR102N65X2	650	54	0.033	10900	152	450	0.38	330	ISOPLUS247
IXTH62N65X2	650	62	0.052	5940	104	420	0.16	780	TO-247
IXTN102N65X2	650	76	0.03	10900	152	450	0.21	595	SOT-227
IXTH80N65X2	650	80	0.04	7753	144	400	0.14	890	TO-247
IXTX102N65X2	650	102	0.03	10900	152	450	0.12	1040	PLUS247
IXTK102N65X2	650	102	0.03	10900	152	450	0.12	1040	TO-264
IXTX120N65X2	650	120	0.024	13600	240	410	0.1	1250	PLUS247
IXTK120N65X2	650	120	0.024	13600	240	410	0.1	1250	TO-264

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