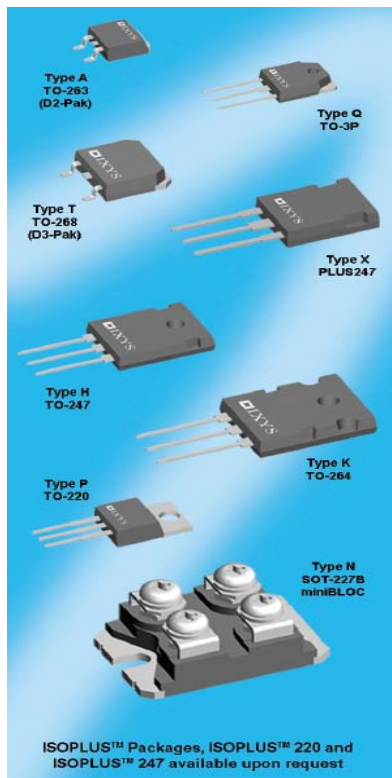


PolarP™ P-Channel Power MOSFETs

IXYS introduces Polar Generation P-Channel Power MOSFETs



Milpitas, CA. – IXYS Corporation (NASDAQ: IXYS) announces the release of a new family of -100V to -600V PolarP™ P-Channel Power MOSFETs. This is a new generation of P-Channel MOSFET that complements the Polar N-Channel family IXYS power MOSFETs. These high performance P-Channel devices are fabricated using IXYS' Polar technology platform, reducing conduction losses by 30% and gate charge by 40%, thereby improving energy efficiency and power switching performance. This new P-Channel family continues IXYS' Power MOSFET market leadership position by providing industry with higher energy efficiency solutions with improved cost advantages.

The voltage ratings of these new P-Channel MOSFETs are -100V, -150V, -200V, -500V, -600V with current ratings ranging from 10A to 170A. Initial offerings include part numbers **IXTH52P10P**, **IXTP3615P**, **IXTH26P20P**, and **IXTH10P50**. They will be offered in various industry standard packages such as the TO-247, TO-3P, TO-220, and TO-263. In addition, versions will be offered in IXYS' proprietary ISOPLUS™ packages providing UL approved 2500V isolation with superior thermal cycling and thermal performance.

Higher current rated parts with additional package options will be forthcoming in the near future.

IXYS' PolarP™ P-Channel Power MOSFETs will excel in a variety of applications, with best-in-class performance and competitive pricing. Common applications include high side switching, power solid state relays, push-pull amplifiers, CMOS high power amplifiers, DC choppers, high current regulators and high side switches in automotive and test equipments. The superior ruggedness and safer operating areas of the PolarP™ Power MOSFETs are suitable for motor control and power cutoff switches for saving energy.

Additional product information may be obtained by visiting IXYS website at <http://www.ixys.com>, or by contacting the company directly. For applications regarding the -50V to -150V range, refer to IXYS' [TrenchP™](#) P-Channel Power MOSFET family for your low voltage solutions.

PolarP™ Power MOSFET Summary Table

Part Number	V _{ds} (max) V	I _d @ T _c =25°C (A)	R _{ds(on)} @ T _c =25°C (Ω)	C _{iss} (pF) typ	Q _g (nC) typ	t _{rr} @ T _c = 25°C (ns)	R _{θ(jc)} (°C/W)	P _d (W)	Package
IXTA52P10P	-100	-52	0.05	2845	60	120	0.42	300	TO-263
IXTH52P10P	-100	-52	0.05	2845	60	120	0.42	300	TO-247
IXTP52P10P	-100	-52	0.05	2845	60	120	0.42	300	TO-220
IXTQ52P10P	-100	-52	0.05	2845	60	120	0.42	300	TO-3P
IXTR90P10P	-100	-57	0.27	5800	120	144	0.66	190	ISOPLUS247
IXTH90P10P	-100	-90	0.25	5800	120	144	0.27	462	TO-247
IXTT90P10P	-100	-90	0.25	5800	120	144	0.27	462	TO-268
IXTR170P10P	-100	-108	0.013	12600	240	176	0.4	312	ISOPLUS247
IXTK170P10P	-100	-170	0.012	12600	240	176	0.14	890	TO-264
IXTX170P10P	-100	-170	0.012	12600	240	176	0.14	890	PLUS247
IXTN170P10P	-100	-170	0.012	12600	240	176	0.14	890	SOT-227
IXTC36P15P	-150	-22	0.12	2950	55	150	1	150	ISOPLUS220
IXTR36P15P	-150	-22	0.12	2950	55	150	1	150	ISOPLUS247
IXTA36P15P	-150	-36	0.11	3100	55	228	0.42	300	TO-263
IXTP36P15P	-150	-36	0.11	3100	55	228	0.42	300	TO-220
IXTQ36P15P	-150	-36	0.11	3100	55	228	0.42	300	TO-3P
IXTA26P20P	-200	-26	0.17	2740	56	240	0.42	300	TO-263
IXTH26P20P	-200	-26	0.17	2740	56	240	0.42	300	TO-247
IXTP26P20P	-200	-26	0.17	2740	56	240	0.42	300	TO-220
IXTQ26P20P	-200	-26	0.17	2740	56	240	0.42	300	TO-3P
IXTR48P20P	-200	-30	0.093	5400	103	260	0.66	190	ISOPLUS247
IXTH48P20P	-200	-48	0.085	5400	103	260	0.27	462	TO-247
IXTT48P20P	-200	-48	0.085	5400	103	260	0.27	462	TO-268
IXTR90P20P	-200	-90	0.048	12000	205	315	0.4	312	ISOPLUS247
IXTK90P20P	-200	-90	0.044	12000	205	315	0.14	890	TO-264
IXTX90P20P	-200	-90	0.044	12000	205	315	0.14	890	PLUS247
IXTN90P20P	-200	-90	0.044	12000	205	315	0.14	890	SOT-227
IXTA10P50P	-500	-10	1	2840	50	414	0.5	250	TO-263
IXTH10P50P	-500	-10	1	2840	50	414	0.5	250	TO-247
IXTP10P50P	-500	-10	1	2840	50	414	0.5	250	TO-220
IXTQ10P50P	-500	-10	1	2840	50	414	0.5	250	TO-3P
IXTR20P50P	-500	-13	0.49	5120	103	406	0.66	190	ISOPLUS247
IXTH20P50P	-500	-20	0.45	5120	103	406	0.27	462	TO-247
IXTT20P50P	-500	-20	0.45	5120	103	406	0.27	462	TO-268
IXTR40P50P	-500	-22	0.26	11500	205	477	0.4	312	ISOPLUS247
IXTK40P50P	-500	-40	0.23	11500	205	477	0.14	890	TO-264
IXTX40P50P	-500	-40	0.23	11500	205	477	0.14	890	PLUS247
IXTN40P50P	-500	-40	0.23	11500	205	477	0.14	890	SOT-227
IXTR16P60P	-600	-10	0.79	5120	92	440	0.66	190	ISOPLUS247
IXTH16P60P	-600	-16	0.72	5120	92	440	0.27	460	TO-247
IXTT16P60P	-600	-16	0.72	5120	92	440	0.27	460	TO-268
IXTR32P60P	-600	-18	0.385	11100	196	480	0.4	310	ISOPLUS247
IXTK32P60P	-600	-32	0.35	11100	196	480	0.14	890	TO-264
IXTX32P60P	-600	-32	0.35	11100	196	480	0.14	890	PLUS247
IXTN32P60P	-600	-32	0.35	11100	196	480	0.14	890	SOT-227