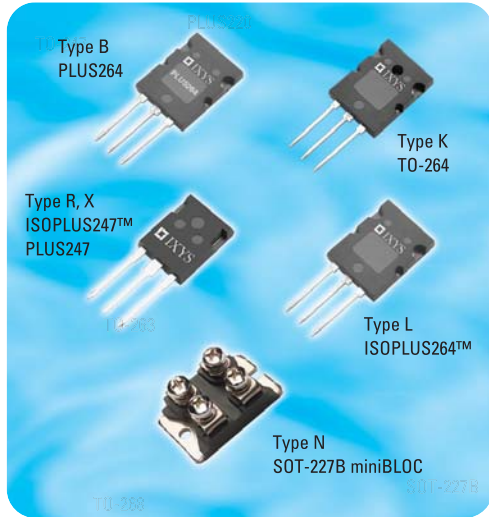


# Improve Ruggedness and Dependability at Lower Cost... SIZE does matter!

## Higher Current (44A to 140A) 300V to 800V PolarHT™/HV™ Power MOSFETs



### Features

- Up to 30% Lower  $R_{DS(on)}$  and  $Q_G$
- Lower thermal impedance and increased power handling
- Excellent ruggedness and dV/dt capability
- Incorporates fast intrinsic body diodes with very low  $Q_{rr}$  and  $I_{rr}$

### Benefits

- Increased current handling capability
- Maximized package real estate
- ISOPLUS™ friendly
- Reduced component count
- Reduced circuit complexity
- Cost effective

### PolarHT™/HV™ Product Family Part Numbers

Example Part Number: IX\_F\_H\_80\_N\_50\_P

IXYS Part Number	T - Standard F - HiPerFET™	Package Type (1)	Current [A]	N-Channel	30 - 300V 50 - 500V 60 - 600V 80 - 800V	PolarHT™/HV™ Technology
IX	F	X, K, N, R(2)	140	N	30	P
IX	F	X, K, N, R(2)	80	N	50	P
IX	F	B, L, N	100	N	50	P
IX	F	X, K, N, R(2)	64	N	60	P
IX	F	B, L, N	82	N	60	P
IX	F	X, K, N, R(2)	44	N	80	P
IX	F	B, L, N	60	N	80	P

(1) Consult listed web links for specific die package combinations offered and parametric data.

(2) For information regarding IXYS ISOPLUS™ packages, visit <http://www.ixys.com/IXAN0022.pdf>

Complete list of **Standard PolarHV™ MOSFETs** can be found at <http://www.ixys.com/Appasp/pdmfet03.asp>

Complete list of **PolarHV HiPerFET™ Power MOSFETs** can be found at <http://www.ixys.com/Appasp/pdhfet02.asp>

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[www.ixys.com](http://www.ixys.com)

Efficiency Through Technology

