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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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Polar ${ }^{\text {TM }}$ Power MOSFET
HiPerFET ${ }^{\text {тм }}$

N-Channel Enhancement Mode Avalanche Rated Fast Intrinsic Diode

## IXFH15N100P

 IXFV15N100P IXFV15N100PS




PLUS220SMD (IXFV_S)


TO-247 (IXFH)

$\begin{array}{ll}G=\text { Gate } & D=\text { Drain } \\ S=\text { Source } & T A B=\text { Drain }\end{array}$

## Features

- International standard packages
- Fast recovery diode
- Unclamped Inductive Switching (UIS) rated
- Low package inductance
- easy to drive and to protect


## Advantages

- Easy to mount
- Space savings
- High power density


## Applications:

- Switched-mode and resonant-mode power supplies
- DC-DC Converters
- Laser Drivers
- AC and DC motor controls
- Robotics and servo controls


TO-247 (IXFH) Outline


PLUS220SMD (IXFV_S) Outline


| SYM | INCHES |  | MILLIMETER |  |
| :---: | :---: | :---: | :---: | :---: |
|  | MIN | MAX | MIN | MAX |
| A | . 169 | . 185 | 4.30 | 4.70 |
| A1 | . 028 | . 035 | 0.70 | 0.90 |
| A2 | . 098 | . 118 | 2.50 | 3.00 |
| A3 | . 000 | . 010 | 0.00 | 0.25 |
| b | . 035 | . 047 | 0.90 | 1.20 |
| b1 | . 080 | . 095 | 2.03 | 2.41 |
| b2 | . 054 | . 064 | 1.37 | 1.63 |
| c | . 028 | . 035 | 0.70 | 0.90 |
| D | . 551 | . 591 | 14.00 | 15.00 |
| D1 | . 512 | . 539 | 13.00 | 13.70 |
| E | . 394 | . 433 | 10.00 | 11.00 |
| E1 | . 331 | . 346 | 8.40 | 8.80 |
| e |  | BBS | 5.08 | BSC |
| L | . 209 | . 228 | 5.30 | 5.80 |
| L1 | . 118 | . 138 | 3.00 | 3.50 |
| L2 | . 035 | . 051 | 0.90 | 1.30 |
| L3 | . 047 | . 059 | 1.20 | 1.50 |
| L4 | . 039 | . 059 | 1.00 | 1.50 |

IXYS reserves the right to change limits, test conditions, and dimensions.

| IXYS MOSFETs and IGBTs are covered | 4,835,592 | 4,931,844 | 5,049,961 | 5,237,481 | 6,162,665 | 6,404,065 B1 | 6,683,344 | 6,727,585 | 7,005,734 B2 | 7,157,338B2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| by one or more of the following U.S. patents: | 4,850,072 | 5,017,508 | 5,063,307 | 5,381,025 | 6,259,123 B1 | 6,534,343 | 6,710,405 B2 | 6,759,692 | 7,063,975 B2 |  |
|  | 4,881,106 | 5,034,796 | 5,187,117 | 5,486,715 | 6,306,728 B1 | 6,583,505 | 6,710,463 | 6,771,478 B2 | 7,071,537 |  |

Fig. 1. Output Characteristics
@ 25º


Fig. 3. Output Characteristics
@ 125으․


Fig. 5. $\mathrm{R}_{\mathrm{DS}(\mathrm{on})}$ Normalized to $\mathrm{I}_{\mathrm{D}}=7.5 \mathrm{~A}$ Value vs. Drain Current


Fig. 2. Extended Output Characteristics @ 25º


Fig. 4. $\mathrm{R}_{\mathrm{DS}(\mathrm{on})}$ Normalized to $\mathrm{I}_{\mathrm{D}}=7.5 \mathrm{~A}$ Value vs. Junction Temperature


Fig. 6. Maximum Drain Current vs. Case Temperature


Fig. 7. Input Admittance


Fig. 9. Forward Voltage Drop of Intrinsic Diode


Fig. 11. Capacitance


Fig. 8. Transconductance


Fig. 10. Gate Charge


Fig. 12. Maximum Transient Thermal Impedance


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