imall

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.

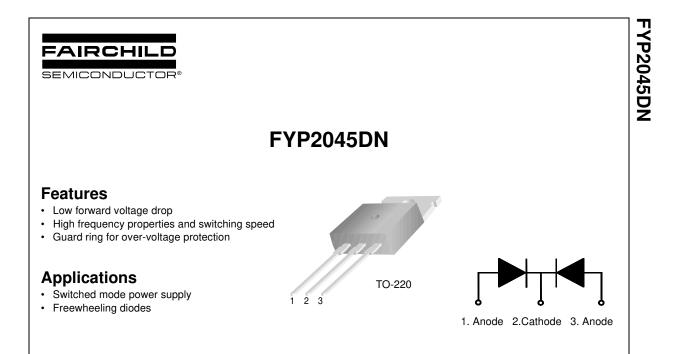
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|----------------------------------|---|-------------|-------|
| V _{RRM} | Maximum Repetitive Reverse Voltage | 45 | V |
| V _R | Maximum DC Reverse Voltage | 45 | V |
| I _{F(AV)} | Average Rectified Forward Current $@T_C = 120^{\circ}C$ | 20 | Α |
| I _{FSM} | Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave | 150 | A |
| T _{J,} T _{STG} | Operating Junction and Storage Temperature | -65 to +150 | °C |

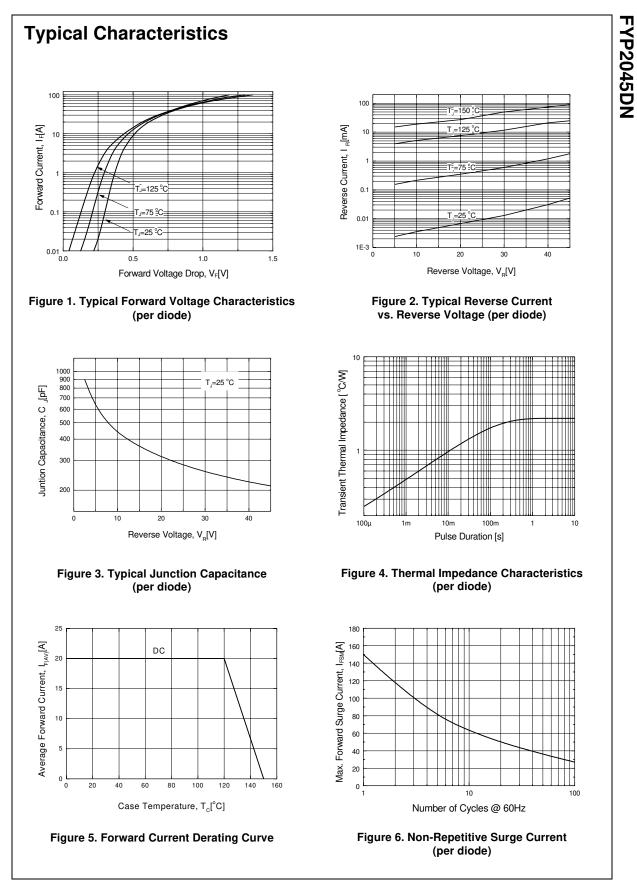
Thermal Characteristics

| Symbol | Parameter | Value | Units |
|-----------------------|--|-------|-------|
| $R_{	extsf{	heta}JC}$ | Maximum Thermal Resistance, Junction to Case (per diode) | 2.2 | °C/W |

Electrical Characteristics (per diode)

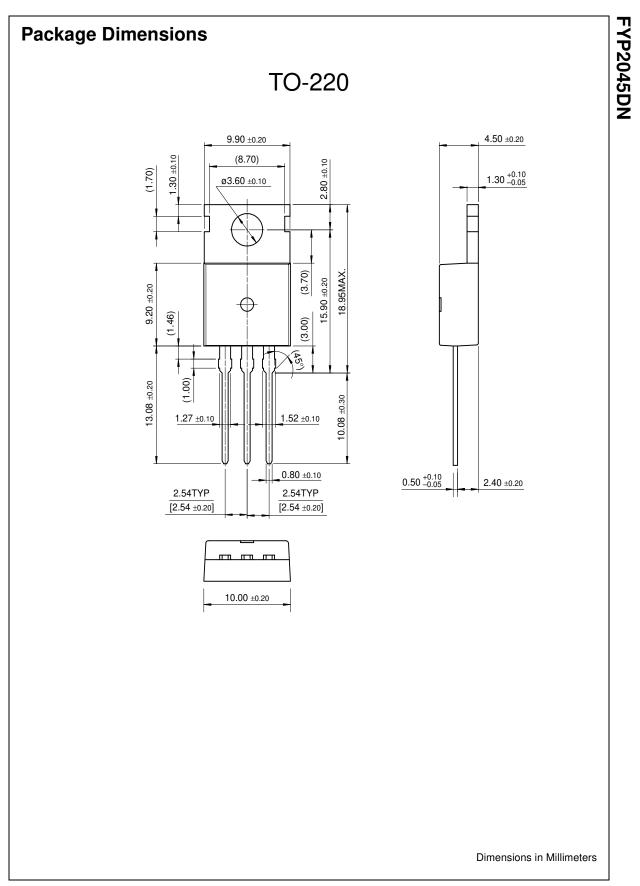
| Symbol | Parameter | | Value | Units |
|-------------------|---------------------------------------|---|-------|-------|
| V _{FM} * | Maximum Instantaneous Forward Voltage | | | V |
| | I _F = 10A | T _C = 25 °C | 0.55 | |
| | $I_{\rm F} = 10$ A | T _C = 125 °C | 0.49 | |
| | $I_F = 20A$ | T _C = 25 °C T _C = 125 °C T _C = 25 °C | 0.70 | |
| | I _F = 20A | T _C = 125 °C | 0.65 | |
| I _{RM} * | Maximum Instantaneous Reverse Current | | | mA |
| | @ rated V _B | T _C = 25 °C | 1 | |
| | | T _C = 25 °C T _C = 125 °C | 80 | |

* Pulse Test: Pulse Width=300µs, Duty Cycle=2%



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|---------------------------|---|
| Advance Information | Formative or In Design | This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. |
| Preliminary | First Production | This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design. |
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