# 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.

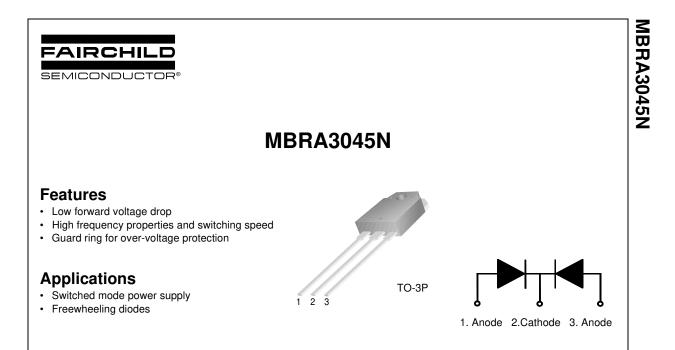
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# SCHOTTKY BARRIER RECTIFIER

#### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	45	V
V <sub>R</sub>	Maximum DC Reverse Voltage	45	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 130^{\circ}C$	30	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	200	A
T <sub>J.</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	-65 to +150	°C

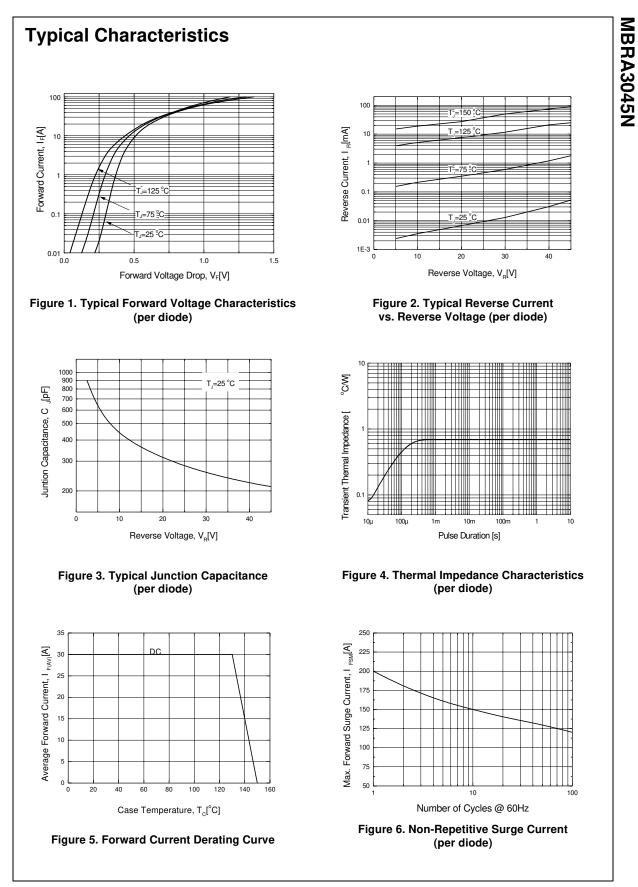
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	0.66	°C/W

### Electrical Characteristics (per diode)

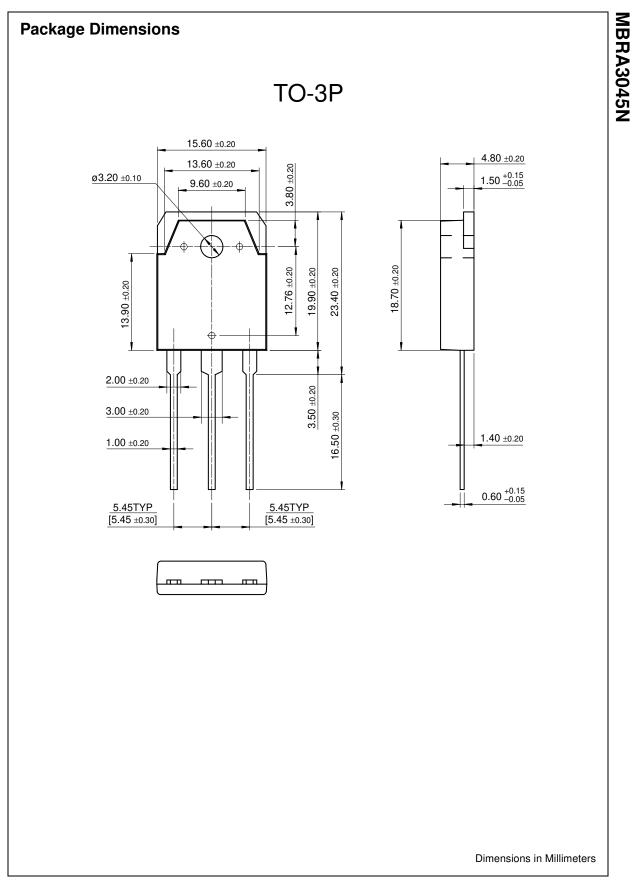
Symbol	Parameter		Value	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage			V
	I <sub>F</sub> = 15A	T <sub>C</sub> = 25 °C	0.65	
	I <sub>F</sub> = 15A	T <sub>C</sub> = 125 °C	0.57	
	$I_F = 30A$	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C T <sub>C</sub> = 25 °C	0.80	
	I <sub>F</sub> = 30A	T <sub>C</sub> = 125 °C	0.65	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current			mA
	@ rated V <sub>B</sub>	T <sub>C</sub> = 25 °C	1	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	80	

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



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#### **PRODUCT STATUS DEFINITIONS**

#### **Definition of Terms**

Datasheet Identification	Product Status	Definition
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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.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.