

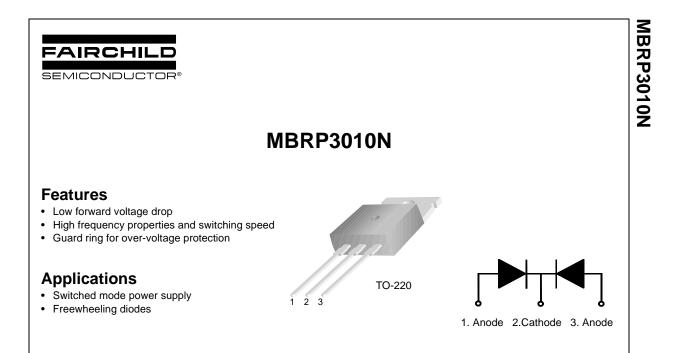
Is Now Part of



# **ON Semiconductor**®

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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	100	V
V <sub>R</sub>	Maximum DC Reverse Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 105°C	30	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	250	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	-65 to +150	°C

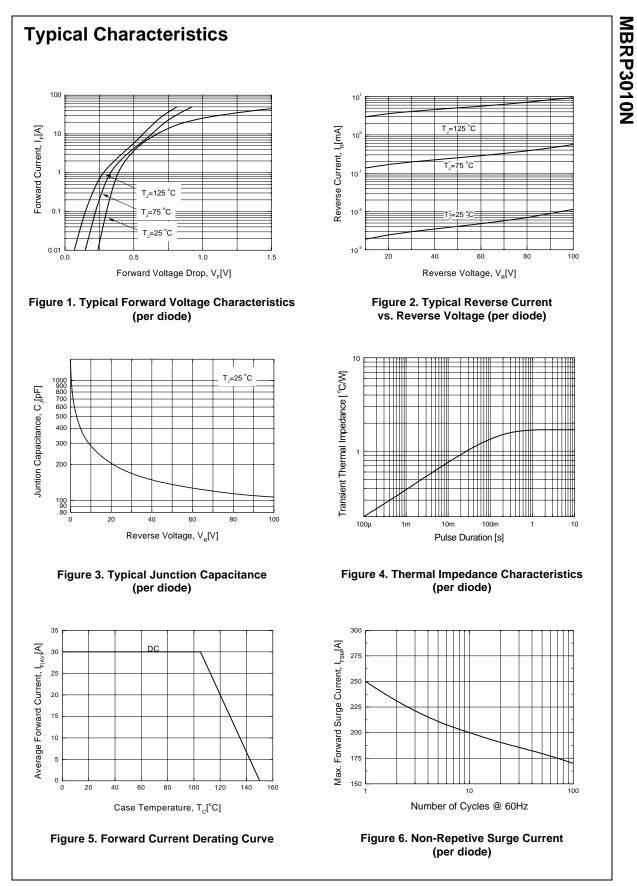
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	1.7	°C/W

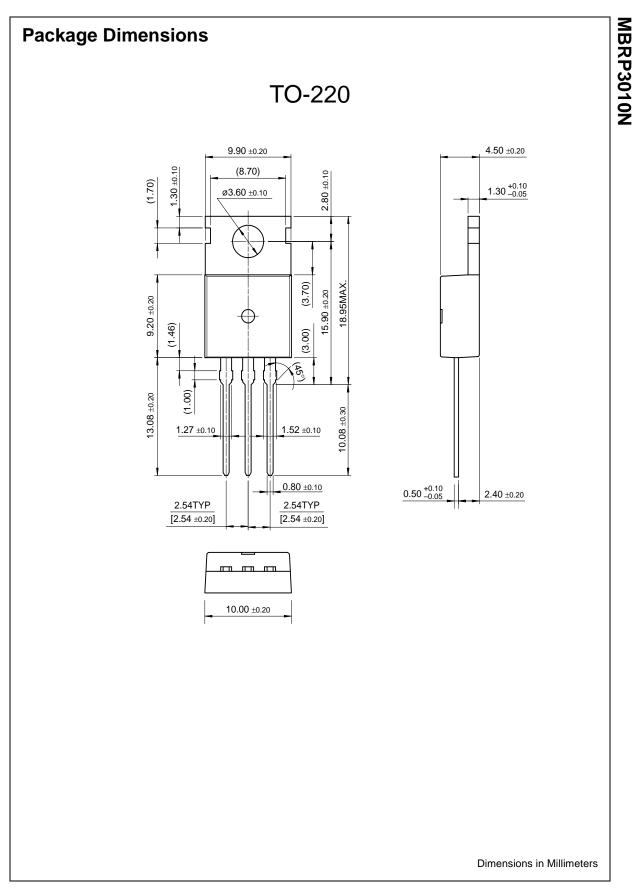
## Electrical Characteristics (per diode)

Symbol	Parameter		Value	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage $I_F = 15A$ $I_F = 15A$ $I_F = 30A$ $I_F = 30A$	$T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 25 °C$ $T_{C} = 125 °C$	0.85 0.67 1.05(TYP.) 0.80	V
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	1 20	mA

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



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