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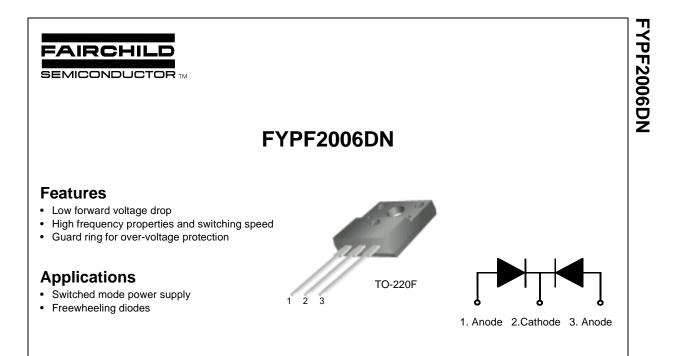


ON Semiconductor®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	60	V
V _R	Maximum DC Reverse Voltage	60	V
I _{F(AV)}	Maximum Average Rectified Current @ $T_C = 120^{\circ}C$	20	A
I _{FSM}	Maximum Forward Surge Current (per diode) 60Hz Single Half-Sine Wave	200	A
T _{J.} T _{STG}	Operating Junction and Storage Temperature	-40 to +150	°C

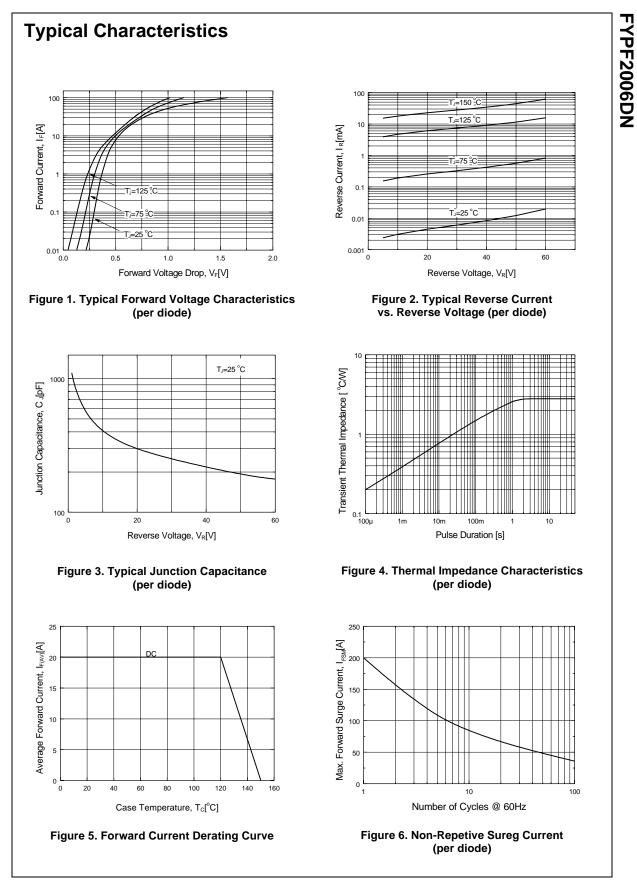
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	2.8	°C/W

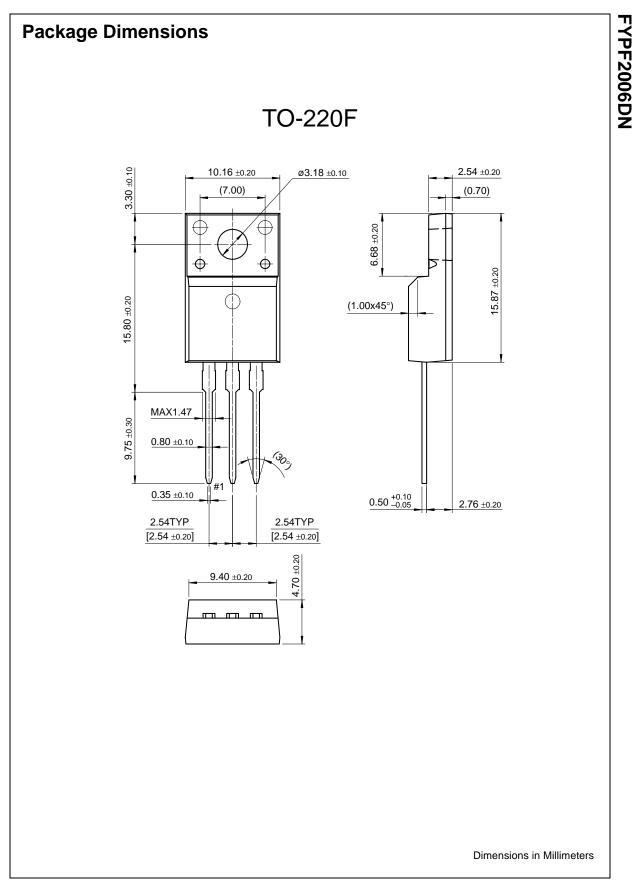
Electrical Characteristics (per diode)

Symbol	Parameter		Value	Units
V _{FM} *	Maximum Instantaneous Forward Voltage			V
	I _F = 10A	T _C = 25 °C	0.58	
	I _F = 10A	T _C = 125 °C	0.52	
	$I_F = 20A$	T _C = 25 °C	0.71	
	I _F = 20A	$T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 25 °C$ $T_{C} = 125 °C$ $T_{C} = 125 °C$	0.65	
I _{RM} *	Maximum Instantaneous Reverse Current			mA
	@ rated V _R	T _C = 25 °C	1	
		T _C = 25 °C T _C = 125 °C	50	

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



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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.
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