

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 @ $T_C = 120^{\circ}C$	5	А	
I _{FSM}	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	80	A	
T _{J,} T _{STG}	Operating Junction and Storage Temperature	-65 to +150	°C	

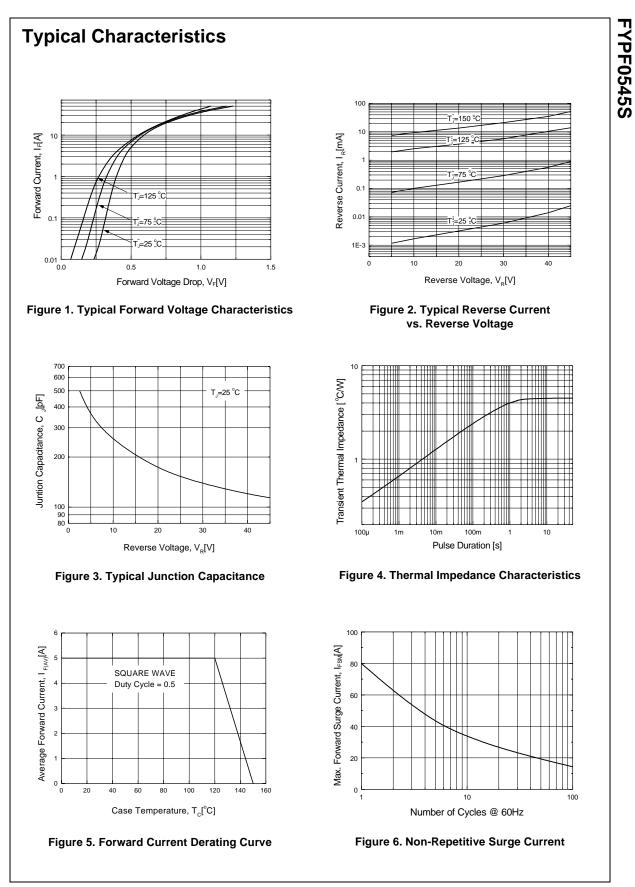
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	4.5	°C/W

Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

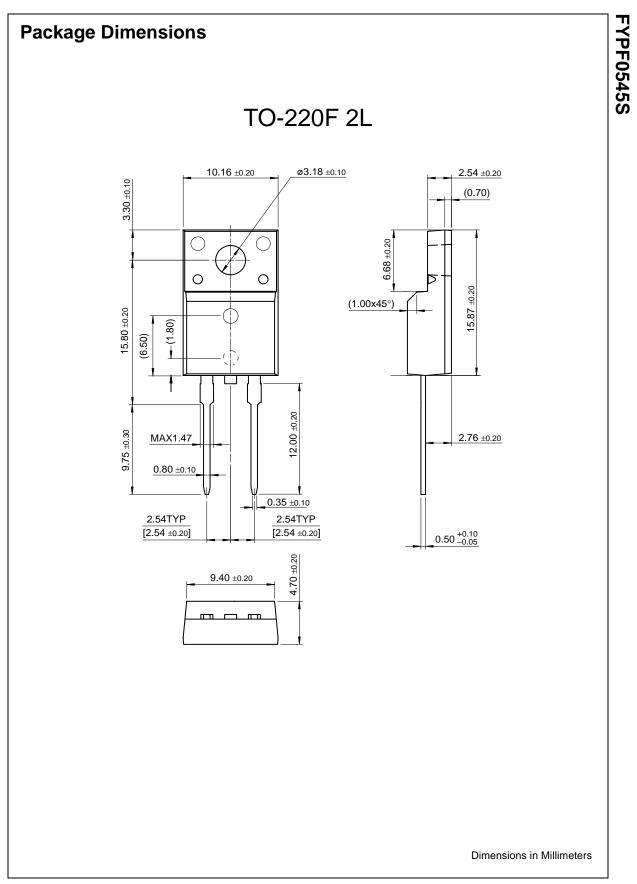
Symbol	Parameter	Value	Units	
V _{FM} *	Maximum Instantaneous Forward Voltage			V
	I _F = 5A	T _C = 25 °C	0.55	
	I _F = 5A	T _C = 25 °C T _C = 125 °C	0.49	
I _{RM} *	Maximum Instantaneous Reverse Current			mA
	@ rated V _R	T _C = 25 °C	1	
		T _C = 25 °C T _C = 125 °C	40	

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



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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.		
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.		



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FYPF0545S Schottky Barrier Rectifier

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Applications

- Switched mode power supply
- Freewheeling diodes

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Product status/pricing/packaging

BUY

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
FYPF0545STU	Full Production	Full Production	\$0.357	<u>TO-220F</u>	2	RAIL	Line 1: \$Y (Fairchild logo) & Z (Asm. Plant Code) & 4 (4-Digit Date Code) Line 2: Y0545S

* Fairchild 1,000 piece Budgetary Pricing

** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please

contact a Fairchild distributor to obtain samples

Indicates product with Pb-free second-level interconnect. For more information click here.

Related Links

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Support

Sales support

Quality and reliability

Design center

Package marking information for product FYPF0545S is available. Click here for more information .

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Qualification Support

Click on a product for detailed qualification data

Product FYPF0545STU

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