

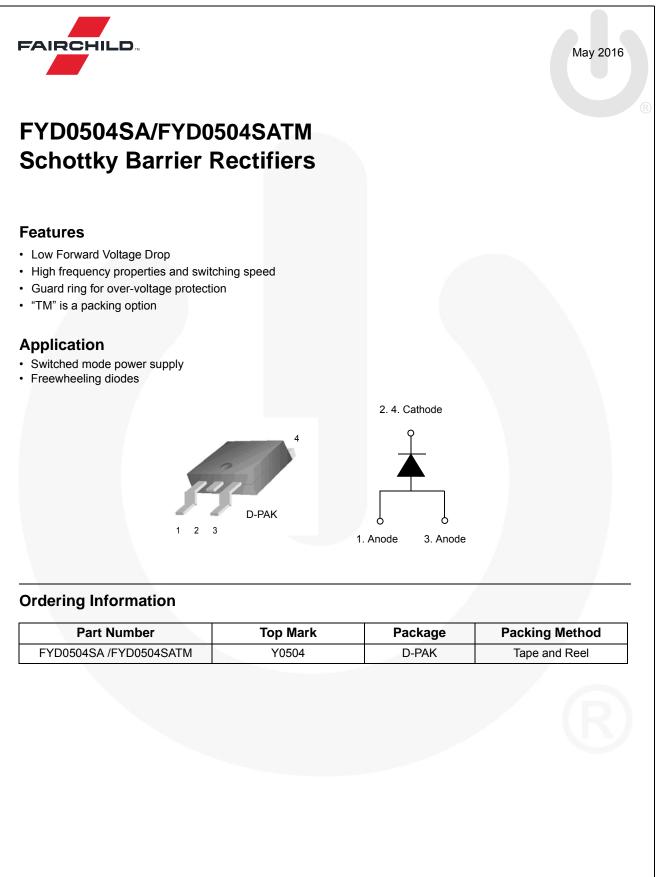
Is Now Part of



# **ON Semiconductor**®

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# **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at  $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Ratings	Unit
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	40	V
V <sub>R</sub>	Maximum DC Reverse Voltage	40	V
I <sub>F(AV)</sub>	Average Forward Rectified Current @ T <sub>C</sub> = 135°C	5	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	80	А
TJ	Operating Junction Temperature Range	-65 to +150	°C
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C

# **Thermal Characteristics**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

Symbol	Parameter	Value	Unit
$R_{\theta Jc}^{(1)}$	Thermal Resistance, Junction-to-Case	0.75	°C/W

## Note:

1. Measurement under infinite cooling condition.

# **Electrical Characteristics**

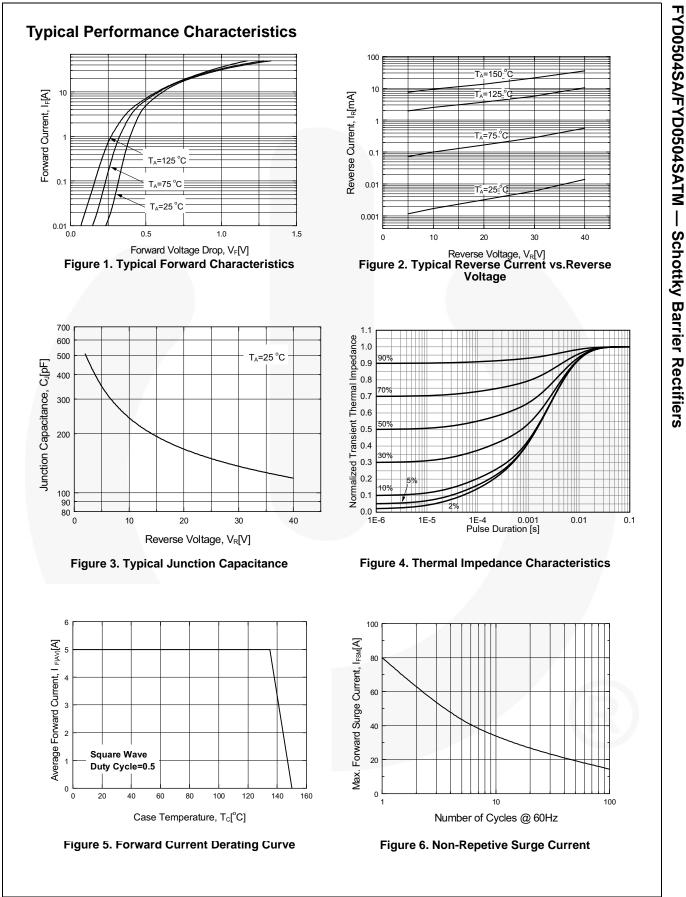
Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

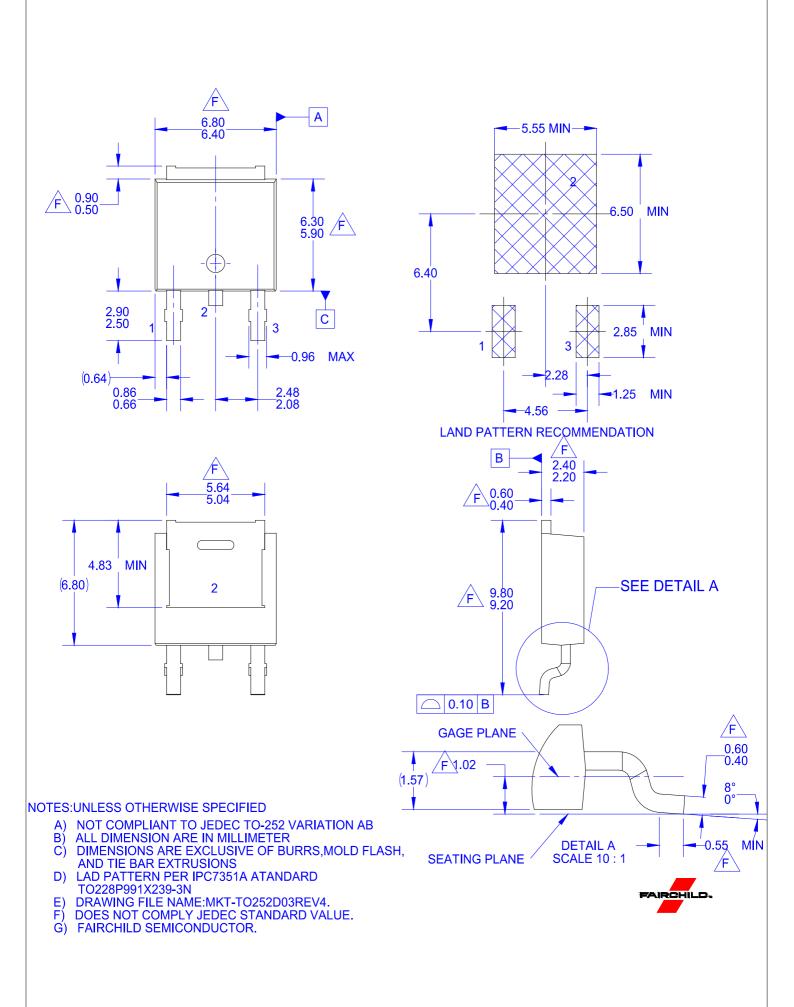
Symbol	Parameter	Conditions	Value	Unit
V <sub>FM</sub>		I <sub>F</sub> = 5 A, T <sub>A</sub> = 25 °C	0.55	V
		I <sub>F</sub> = 5 A, T <sub>A</sub> = 125 °C	0.49	
		I <sub>F</sub> = 10 A, T <sub>A</sub> = 25 °C	0.67	
		I <sub>F</sub> = 10 A, T <sub>A</sub> = 125 °C	0.65	
I <sub>RM</sub>	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub> <sup>(2)</sup>	T <sub>A</sub> = 25 °C	1	mA
		T <sub>A</sub> = 125 °C	40	

## Note:

2. Pulse test with PW = 300  $\mu$ s, 2% duty cycle

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