

Is Now Part of

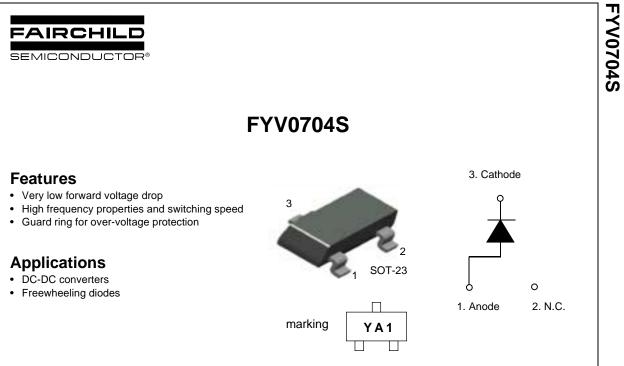


## **ON Semiconductor**®

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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 <a href="mailto:www.onsemi.com">www.onsemi.com</a>. Please email any questions regarding the system integration to <a href="mailto:Fairchild\_questions@onsemi.com">Fairchild\_questions@onsemi.com</a>.

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## SCHOTTKY BARRIER RECTIFIER

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

Symbol	Parameter	Value	Units
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 Rectified Forward Current @ $T_A = 40^{\circ}C$	0.75	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	8	A
TJ	Operating Junction Temperature	-65 to +125	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

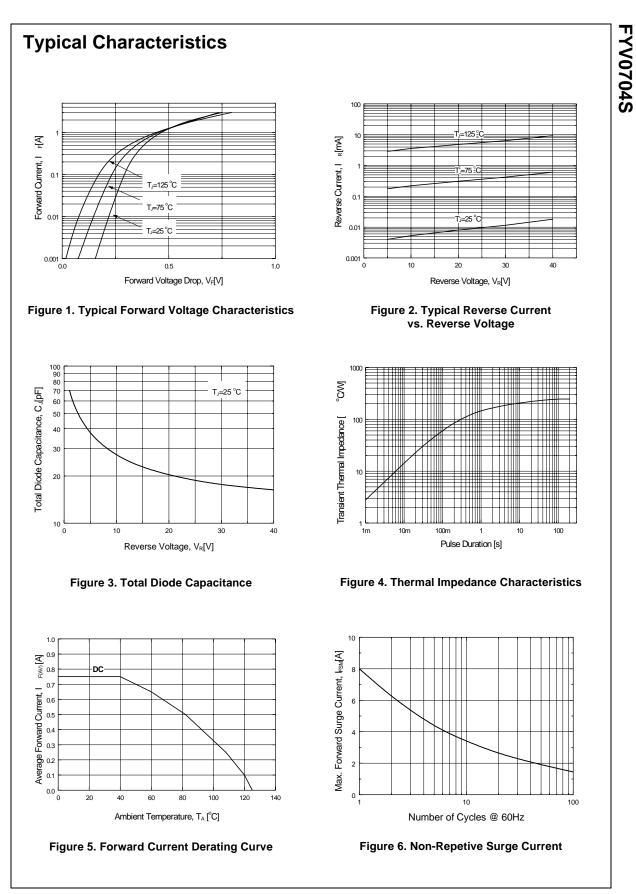
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	250	°C/W

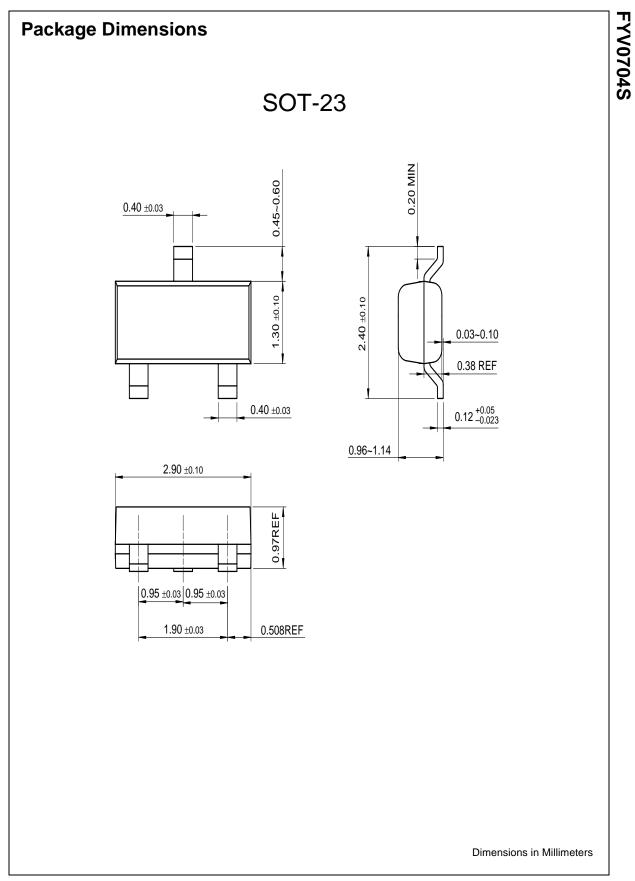
### **Electrical Characteristics**

Symbol	Parameter			Min.	Тур.	Max.	Units
V <sub>F</sub> *	Forward Voltage	Drop					V
		I <sub>F</sub> = 50mA	T <sub>A</sub> = 25 °C	-	0.270	-	
		I <sub>F</sub> = 100mA	T <sub>A</sub> = 25 °C	-	0.290	-	
		I <sub>F</sub> = 500mA	T <sub>A</sub> = 25 °C	-	0.380	-	
		I <sub>F</sub> = 750mA	T <sub>A</sub> = 25 °C	-	0.425	0.48	
		I <sub>F</sub> = 1A	T <sub>A</sub> = 25 °C	-	0.460	-	
		I <sub>F</sub> = 1.5A	T <sub>A</sub> = 25 °C	-	0.535	-	
		I <sub>F</sub> = 750mA	T <sub>A</sub> = 125 °C	-	0.375	-	
I <sub>R</sub> *	Reverse Current						mA
		@ rated V <sub>R</sub>	T <sub>A</sub> = 25 °C	-	0.02	0.1	
			T <sub>A</sub> = 125 °C	-	10	-	

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DOME™ 	HiSeC™	QS™	UHC™
EcoSPARK™ E <sup>2</sup> CMOS™	ISOPLANAR™ LittleFET™	QT Optoelectronics™ Quiet Series™	UltraFET <sup>®</sup> VCX™
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