

# **Excellent Integrated System Limited**

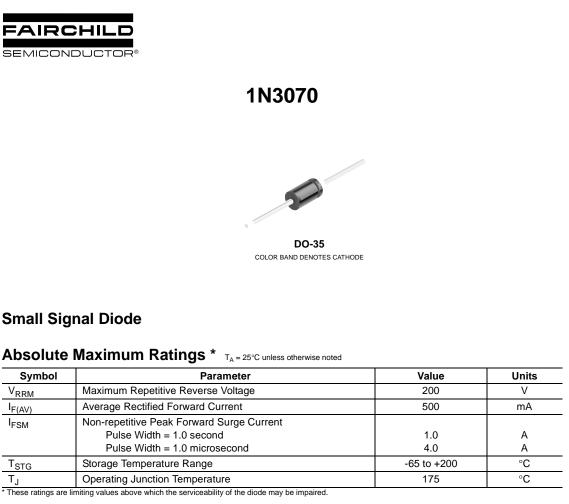
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Fairchild Semiconductor 1N3070

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





#### NOTES:

These ratings are based on a maximum junction temperature of 200 degrees C.
These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

## **Thermal Characteristics**

Symbol	Parameter	Value	Units
PD	Power Dissipation	500	mW
$R_{\thetaJA}$	Thermal Resistance, Junction to Ambient	300	°C

## Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100μA	200		V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 100mA		1.0	V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 175V V <sub>R</sub> = 175V, T <sub>A</sub> = 150°C		100 100	nA μA
CT	Total Capacitance	$V_{R} = 0V, f = 1.0MHz$		5	pF
t <sub>rr</sub>	Reverse Recovery Time	$I_{\rm F} = I_{\rm R} = 30 {\rm mA}, {\rm RL} = 100 {\Omega}$		50	ns

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TRADEMARKS				
•	gistered and unregistered tr chaustive list of all such trac	lemarks.	onductor owns or is author	
ACEx™	FAST®	ISOPLANAR™	Power247™	SuperFET™
ActiveArray™	FASTr™	LittleFET™	PowerSaver™	SuperSOT™-3
Bottomless™	FPS™	MICROCOUPLER™	PowerTrench <sup>®</sup>	SuperSOT™-6
CoolFET™	FRFET™	MicroFET™	QFET <sup>®</sup>	SuperSOT™-8
CROSSVOLT™	GlobalOptoisolator™	MicroPak™	QS™	SyncFET™
DOME™	GTO™	MICROWIRE™	QT Optoelectronics <sup>™</sup>	TinyLogic®
EcoSPARK™	HiSeC™	MSX™	Quiet Series™	TINYOPTO™
E <sup>2</sup> CMOS™	I <sup>2</sup> C™	MSXPro™	RapidConfigure™	TruTranslation™
EnSigna™	<i>i-Lo</i> ™	OCX™	RapidConnect™	UHC™
FACT™	ImpliedDisconnect™	OCXPro™	µSerDes™	UltraFET <sup>®</sup>
FACT Quiet Series	тм	OPTOLOGIC <sup>®</sup>	SILENT SWITCHER <sup>®</sup>	VCX™
Across the board.	Around the world.™	OPTOPLANAR™	SMART START™	
The Power Franch		PACMAN™	SPM™	
Programmable Act	ive Droop™	POP™	Stealth™	

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

#### **PRODUCT STATUS DEFINITIONS**

#### **Definition of Terms**

Datasheet Identification	Product Status	Definition
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