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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.

SEMICONDUCTOR

1N3070



T_A = 25°C unless otherwise noted

STG	Storage Temperature Range	-65 to +200	°C
T _J	Operating Junction Temperature	175	°C

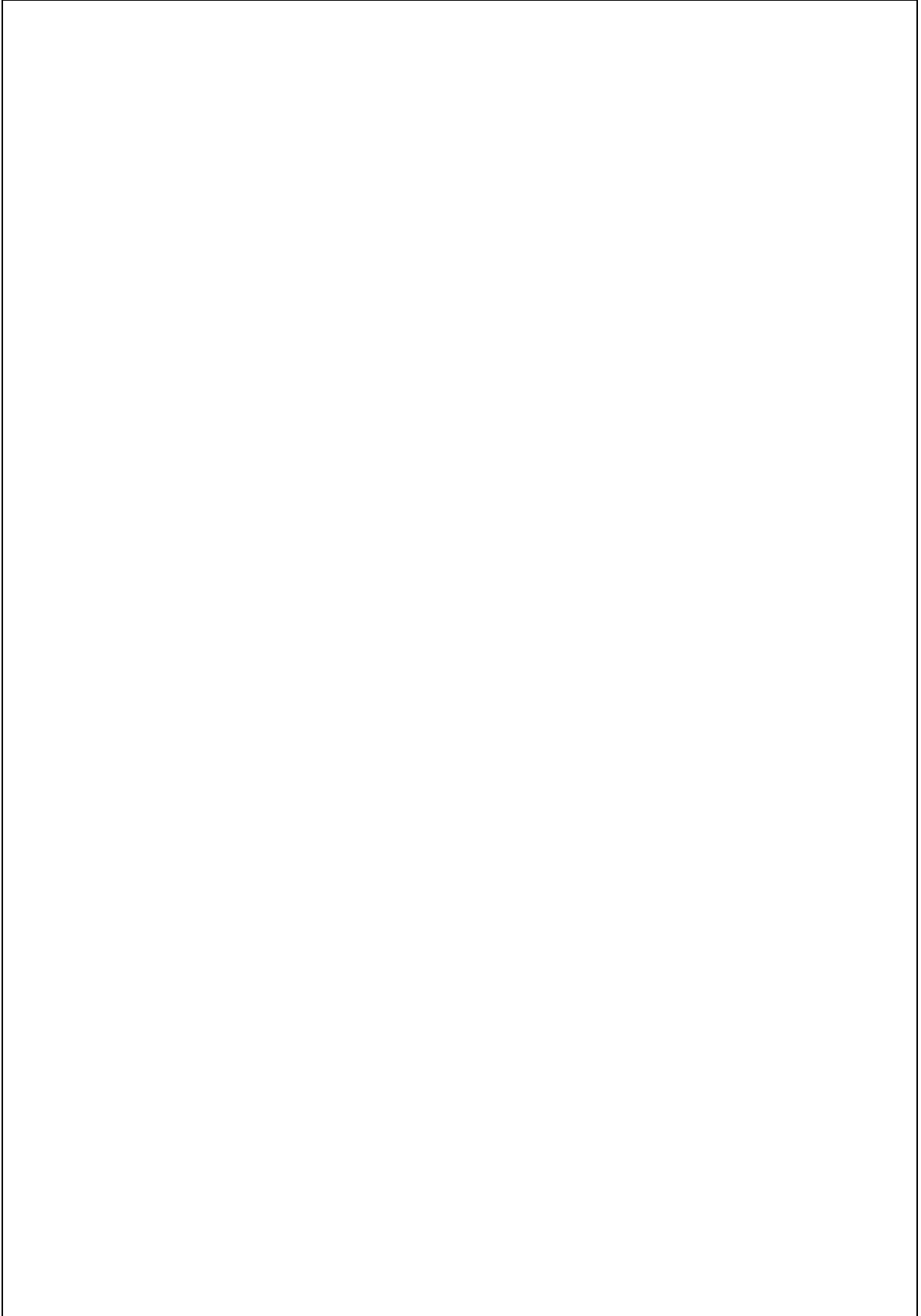
* These ratings are limiting values above which the serviceability of the diode may be impaired.

NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) T_{Non-repetitive Peak Forward Surge Current}
 - Pulse Width = 1.0 second 1.0 A
 - Pulse Width = 1.0 microsecond 4.0 A

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	300	°C

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V _R	Breakdown Voltage	I _R = 100μA	200		V
V _F	Forward Voltage	I _F = 100mA		1.0	V
I _R	Reverse Leakage	V _R = 175V V _R = 175V, T _A = 150°C		100 100	nA μA
C _T	Total Capacitance	V _R = 0V, f = 1.0MHz		5	pF
t _{rr}	Reverse Recovery Time	I _F = I _R = 30mA, RL = 100Ω		50	ns



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