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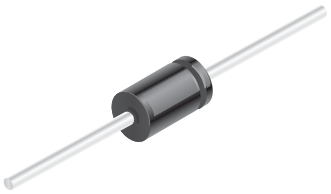
Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes 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.

November 2009

1N5282
Small Signal Diode



DO-35
Color Band Denotes Cathode

Absolute Maximum Ratings* T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	80	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	 1.0 4.0	 A A
T_{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 any semiconductor device may be impaired.

NOTES:

1) These ratings are based on a maximum junction temperature of 200 degrees C.

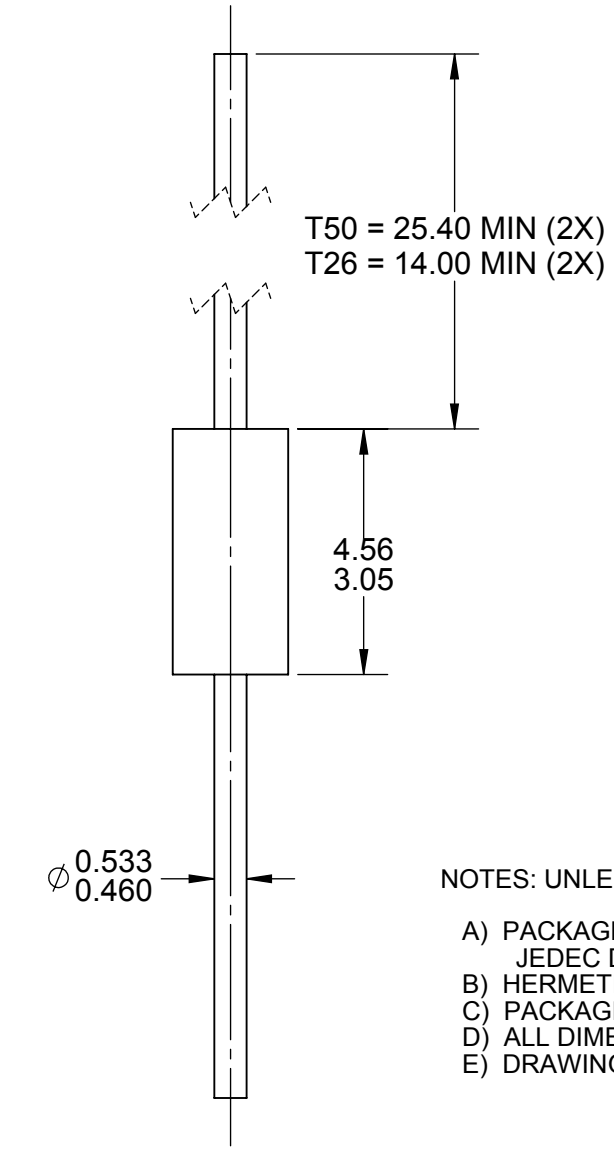
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

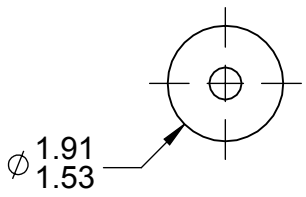
Thermal Characteristics

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mV
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	°C/W

Electrical Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
V_R	Breakdown Voltage	I_R = 5 μA	80		V
V_F	Forward Voltage	I_F = 0.1 mA I_F = 1.0 mA I_F = 10 mA I_F = 100 mA I_F = 300 mA I_F = 500 mA	0.45 0.55 0.67 0.80 0.92 1.05	0.49 0.60 0.725 0.90 1.1 1.3	V V V V V V
I_R	Reverse Current	V_R = 55 V V_R = 55 V, T_A = 150 °C		100 100	nA μA
C_T	Total Capacitance	V_R = 0, f = 1.0 MHz		2.5	pF
t_{rr1}	Reverse Recovery Time	I_F = I_R = 10 mA, R_L = 100Ω I_{rr} = 1.0 mA		4	ns
t_{rr2}	Reverse Recovery Time	I_F = I_R = 200 mA, R_L = 100Ω I_{rr} = 20mA		4	ns





NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE:
JEDEC DO-204, VARIATION AH.
B) HERMETICALLY SEALED GLASS PACKAGE.
C) PACKAGE WEIGHT IS 0.137 GRAM.
D) ALL DIMENSIONS ARE IN MILLIMETERS.
E) DRAWING FILE NAME: DO35AREV03

FAIRCHILD ™

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:
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