1N457A
SMALL SIGNAL DIODE

VOLTAGE RANGE: 70V
CURRENT: 0.2 A

Features

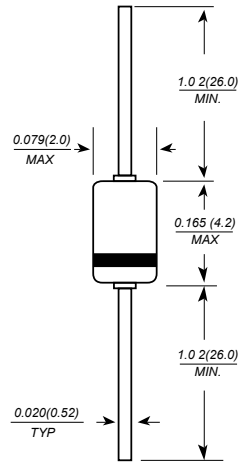
- Ideal for Fast Logic Applications
- High Reliability
- High Conductance

Mechanical Data

- Case: DO-35
- Leads: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

RoHS COMPLIANT

DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

T_A = 25°C unless otherwise specified

Symbol	Parameter	Value	Units
V	Maximum Repetitive Reverse Voltage	70	V
I	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second	1.0	A
	Pulse Width = 1.0 microsecond	4.0	A
T_{stg}	Storage Temperature Range	-65 to +200	°C
T_J	Operating Junction Temperature	175	°C

Thermal Characteristics

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

Electrical Characteristics

Symbol	Parameter		Test Conditions	Min	Max	Units
V_R	Breakdown Voltage		I_R = 100 µA	70		V
V_F	Forward Voltage	**1N457** **1N457A**	I_F = 20 mA I = 100 mA		1.0 1.0	V V
I_R	Reverse Current		V_R = 60 V V_R = 60 V, T_A = 150°C		25 5	nA µA
C_T	Total Capacitance	**1N457**	V_R = 0, f = 1.0 MHz		8.0	pF