

Features

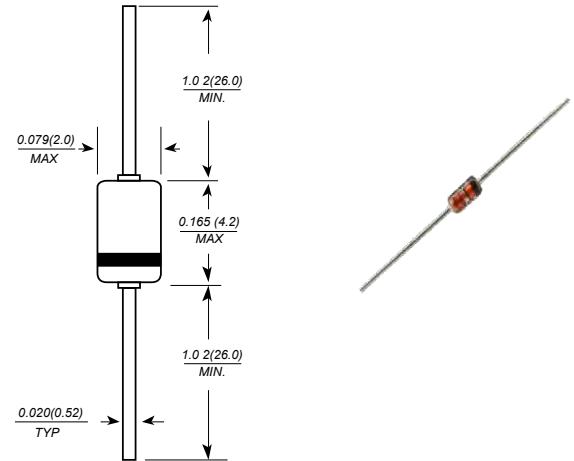
- Detection efficiency is very good.
- Small temperature coefficient.
- High reliability with glass seal.

Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Item	Symbol	Value	Unit
Reverse voltage	V_R	30	V
Average rectified current	I_O	15	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward current	I_F	3.0	—	—	mA	$V_F = 1\text{V}$
Reverse current	I_R	—	—	100	μA	$V_R = 10\text{V}$
Capacitance	C	—	—	3.0	pF	$V_R = 1\text{V}, f = 1\text{MHz}$
Rectifier efficiency	η	70	—	—	%	$V_{in} = 2\text{Vrms}, f = 40\text{MHz}, R_L = 5\text{k}\Omega, C_L = 20\text{pF}$
ESD-Capability	—	70	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse.

Note: Failure criterion; $I_R \geq 200\mu\text{A}$ at $V_R = 10\text{V}$

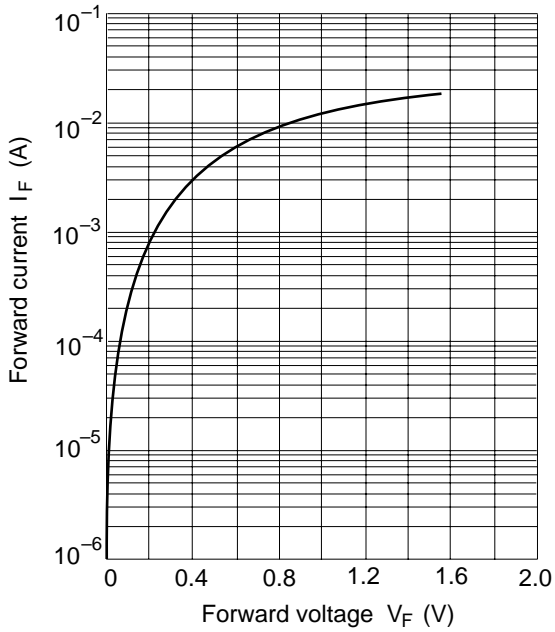


Fig.1 Forward current Vs. Forward voltage

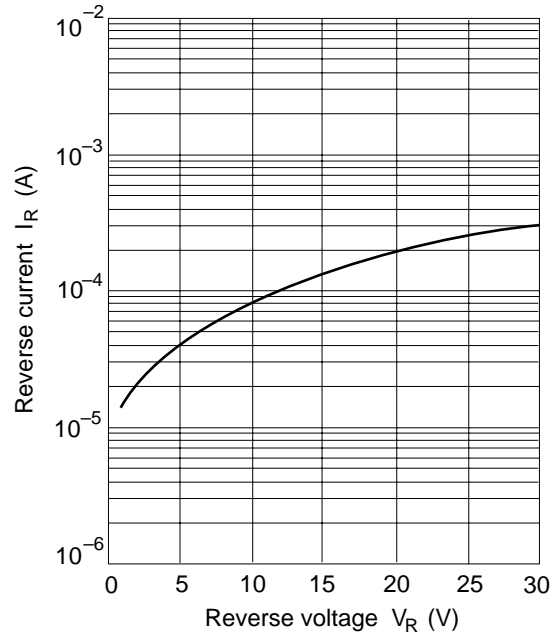


Fig.2 Reverse current Vs. Reverse voltage

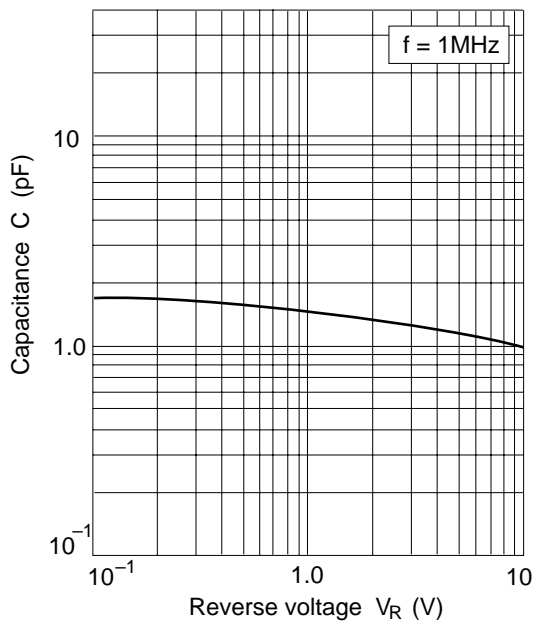


Fig.3 Capacitance Vs. Reverse voltage

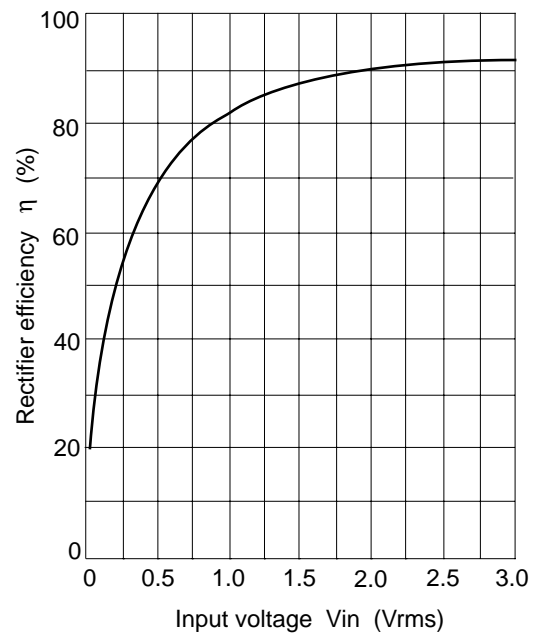


Fig.4 Rectifier efficiency Vs. Input voltage