

### Features

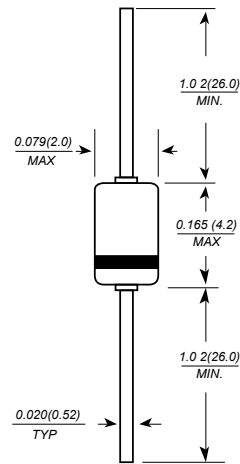
- Detection efficiency is very good.
- Small temperature coefficient.
- High reliability with glass seal.

### 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

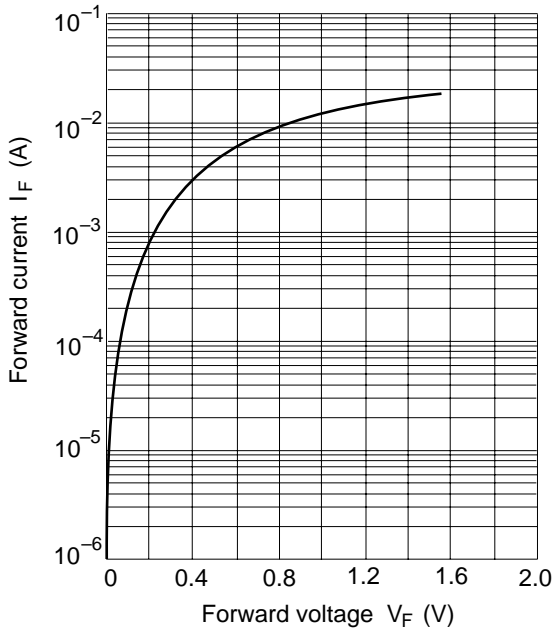
### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

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	$^\circ\text{C}$

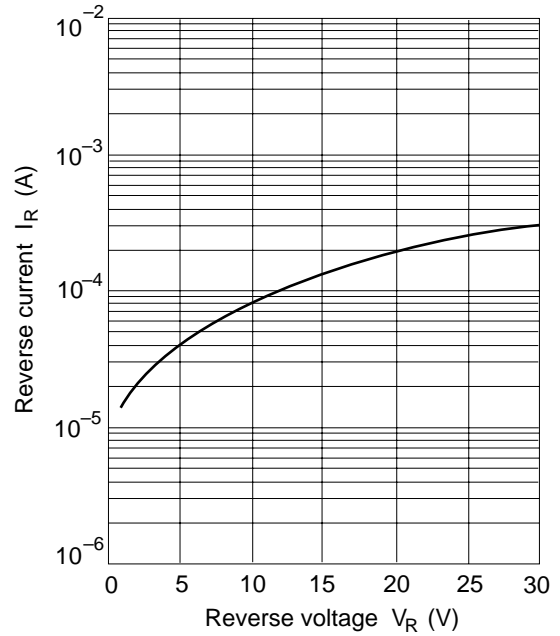
### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

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	$\mu\text{A}$	$V_R = 10\text{V}$
Capacitance	$C$	—	—	3.0	pF	$V_R = 1\text{V}, f = 1\text{MHz}$
Rectifier efficiency	$\eta$	70	—	—	%	$V_{in} = 2V_{rms}, f = 40\text{MHz}, R_L = 5k\Omega, C_L = 20\text{pF}$
ESD-Capability	—	70	—	—	V	* $C = 200\text{pF}$ , Both forward and reverse direction 1 pulse.

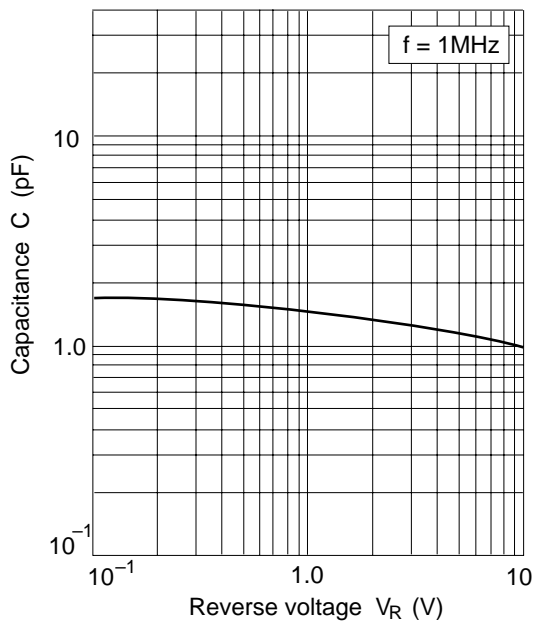
Note: Failure criterion;  $I_R \geq 200\mu\text{A}$  at  $V_R = 10\text{V}$



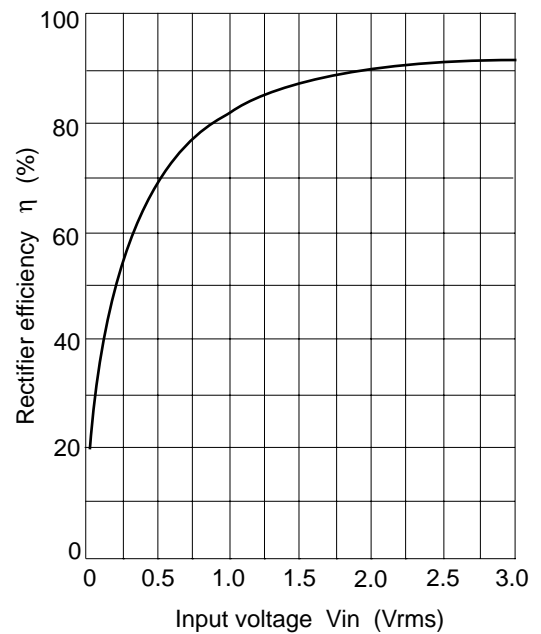
**Fig.1 Forward current Vs. Forward voltage**



**Fig.2 Reverse current Vs. Reverse voltage**



**Fig.3 Capacitance Vs. Reverse voltage**



**Fig.4 Rectifier efficiency Vs. Input voltage**