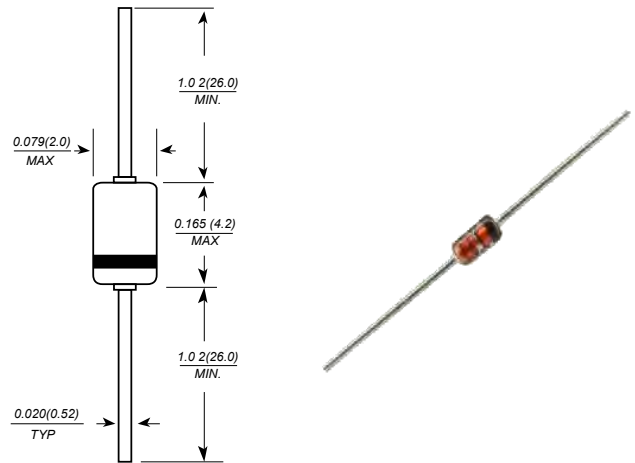


**Features**

- High linearity
- Matched to 3%
- Hermetically sealed leaded glass
- C28: 4.7 pF; ratio: 9
- Low series resistance.

**Mechanical Data**

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


**DO-35(GLASS)**


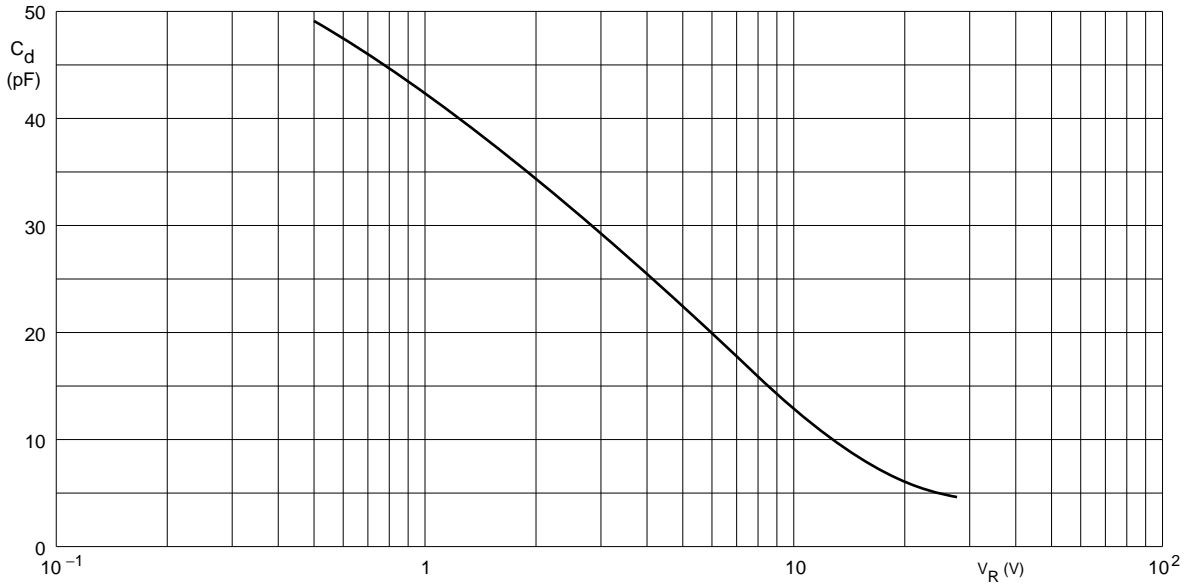
Dimensions in millimeters

**Maximum Ratings and Electrical Characteristics** @  $T_A = 25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	MIN.	MAX.	UNIT				
$V_R$	continuous reverse voltage	–	30	V				
$I_F$	continuous forward current	–	20	mA				
$T_{stg}$	storage temperature	–55	+150	°C				
$T_j$	operating junction temperature	–55	+100	°C				
SYMBOL	PARAMETER	CONDITIONS			MIN.	TYP.	MAX.	UNIT
$I_R$	reverse current	$V_R = 28\text{ V}$ ; see Fig.3			–	–	10	nA
		$V_R = 28\text{ V}$ ; $T_j = 85^\circ\text{C}$ ; see Fig.3			–	–	200	nA
$r_s$	diode series resistance	$f = 200\text{ MHz}$ ; note 1			–	–	0.6	$\Omega$
$C_d$	diode capacitance	$V_R = 1\text{ V}$ ; $f = 1\text{ MHz}$ ; see Figs 2 and 4			39	–	46	pF
		$V_R = 28\text{ V}$ ; $f = 1\text{ MHz}$ ; see Figs 2 and 4			4	–	5	pF
$\frac{C_d(1V)}{C_d(28V)}$	capacitance ratio	$f = 1\text{ MHz}$			8	–	10	
$\frac{\Delta C_d}{C_d}$	capacitance matching	$V_R = 0.5\text{ to }28\text{ V}$			–	–	3	%

**Note**

1.  $V_R$  is the value at which  $C_d = 25\text{ pF}$ .



$f = 1 \text{ MHz}; T_j = 25 \text{ }^\circ\text{C}.$

Fig.1 Diode capacitance as a function of reverse voltage; typical values.

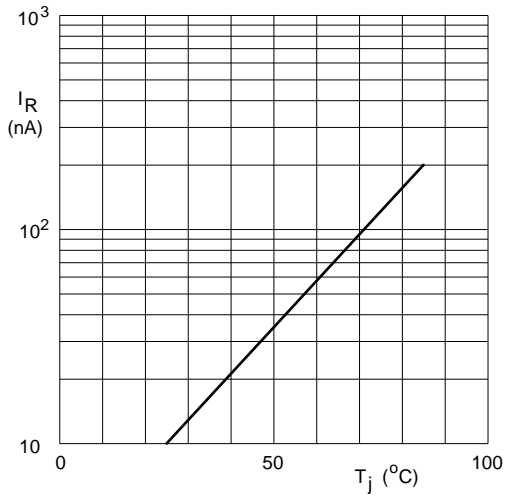
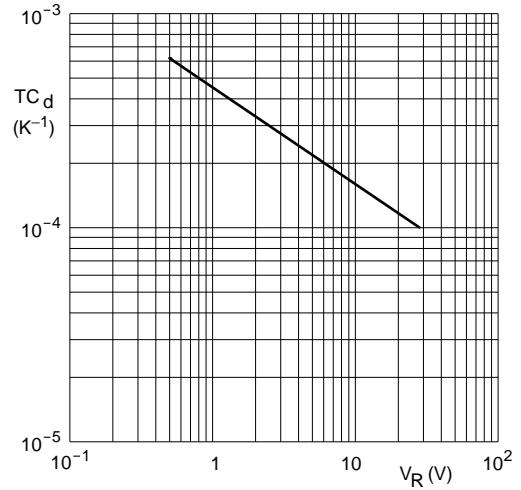


Fig.2 Reverse current as a function of junction temperature; maximum values.



$T_j = 0 \text{ to } 85 \text{ }^\circ\text{C}.$

Fig.3 Temperature coefficient of diode capacitance as a function of reverse voltage; typical values.