

Features

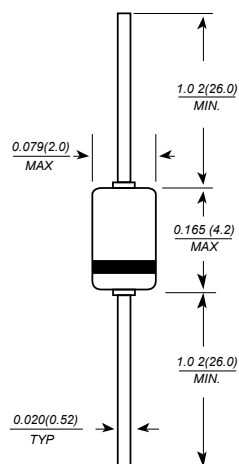
- Low forward voltage drop
- High forward current capability

Mechanical Data

- Case: DO-35 Glass Case
- Weight: approx. 0.13g



DO-35(GLASS)



Dimensions in millimeters

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

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage			V_{RRM}	75	V
Reverse voltage			V_R	60	V
Peak forward surge current	$t_p=1\mu\text{s}$		I_{FSM}	4	A
Forward current			I_F	600	mA
Average forward current	$V_R=0$		I_{FAV}	300	mA
Power dissipation	$l=4\text{mm}, T_L=45^\circ\text{C}$		P_V	440	mW
	$l=4\text{mm}, T_L \leq 25^\circ\text{C}$		P_V	500	mW
Junction temperature			T_j	200	$^\circ\text{C}$
Storage temperature range			T_{stg}	-65...+200	$^\circ\text{C}$

Maximum Thermal Resistance $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	$l=4\text{mm}, T_L=\text{constant}$	R_{thJA}	350	K/W

Electrical Characteristics $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=10\text{mA}$		V_F		0.67	0.75	V
	$I_F=50\text{mA}$		V_F		0.8	0.85	V
	$I_F=200\text{mA}$		V_F		0.95	1.0	V
	$I_F=400\text{mA}$		V_F		1.12	1.25	V
Reverse current	$V_R=60\text{V}$		I_R			100	nA
	$V_R=60\text{V}, T_j=100^\circ\text{C}$		I_R			50	μA
Breakdown voltage	$I_R=5\mu\text{A}, t_p/T=0.01, t_p=0.3\text{ms}$		$V_{(BR)}$	75			V
Diode capacitance	$V_R=0, f=1\text{MHz}, V_{HF}=50\text{mV}$		C_D			4	pF
Reverse recovery time	$I_F=I_R=10\text{...}100\text{mA}, i_R=0.1I_R$		t_{rr}			6	ns