

Features

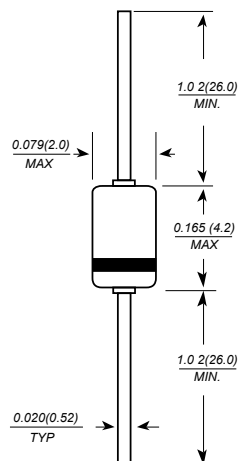
- Switching speed: max. 120ns
- General application

Mechanical Data

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



DO-35(GLASS)



Dimensions in millimeters

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

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	150	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
i_f	Recurrent Peak Forward Current	600	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 s Pulse Width = 1.0 μs	1 4	A A
T_{STG}	Storage Temperature Range	-65 to 200	$^\circ\text{C}$
T_J	Operating Junction Temperature	175	$^\circ\text{C}$

Electrical Characteristics * $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max.	Units
V_R	Breakdown Voltage	$I_R = 100\mu\text{A}$	180		V
V_F	Forward Voltage	$I_F = 1.0\text{mA}$		0.65	V
V_{FP}	Forward Voltage Pulse Width = 300 μs	$I_F = 100\text{mA}$ $I_F = 200\text{mA}$		1.3 1.5	
I_R	Reverse Leakage	$V_R = 50\text{V}$ $V_R = 50\text{V}, T_A = 150^\circ\text{C}$ $V_R = 150\text{V}$ $V_R = 150\text{V}, T_A = 150^\circ\text{C}$		25 25 100 100	nA μA nA μA
t_{rr}	Reverse Recovery Time	$I_F = 30\text{mA}, I_R = 30\text{mA},$ $I_{rr} = 1.0\text{mA}, R_L = 100\Omega$		120	ns

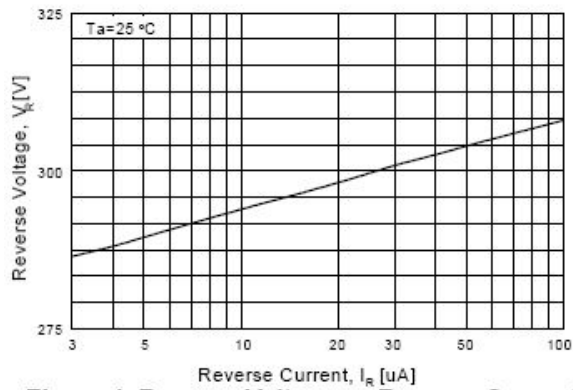
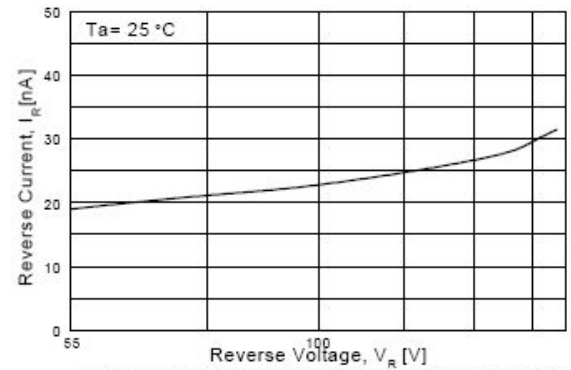
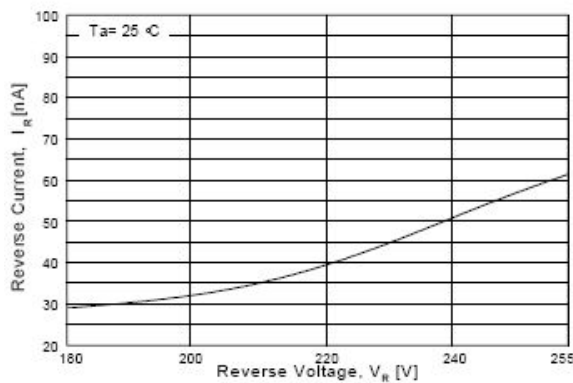


Figure 1. Reverse Voltage vs Reverse Current
BV - 1.0 to 100uA



GENERAL RULE: The Reverse Current of a diode will approximately double for every ten (10) Degree C increase in Temperature
Figure 2. Reverse Current vs Reverse Voltage
IR - 55 to 205 V



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Figure 3. Reverse Current vs Reverse Voltage
IR - 180 to 225 V

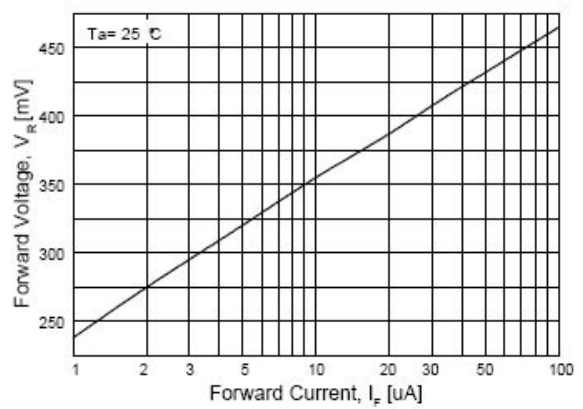


Figure 4. Forward Voltage vs Forward Current
VF - 1.0 to 100uA

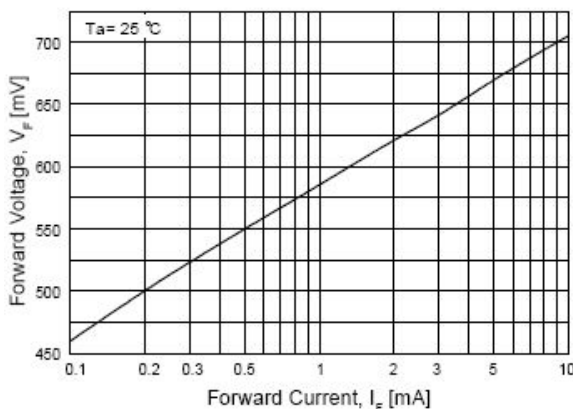


Figure 5. Forward Voltage vs Forward Current
VF - 0.1 to 10mA

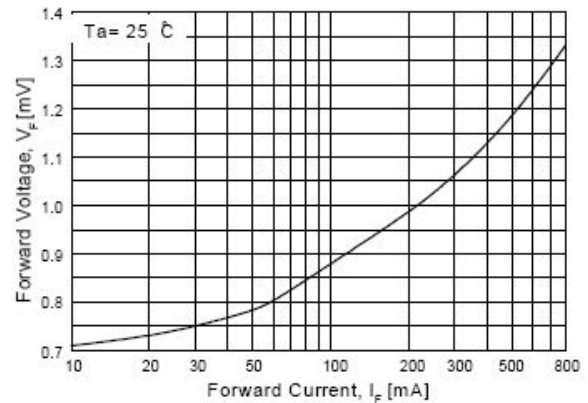
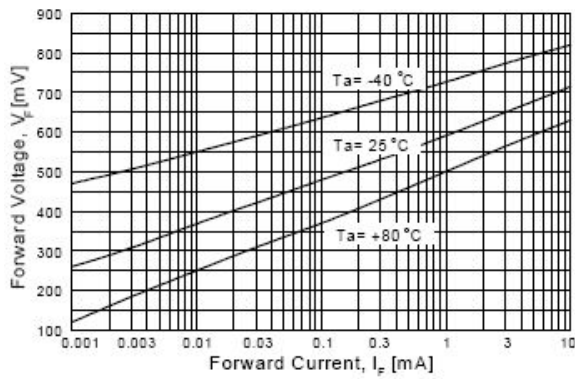


Figure 6. Forward Voltage vs Forward Current
VF - 10 to 800mA



**Figure 7. Forward Voltage
vs Ambient Temperature**
VF - 1.0 μ A - 10 mA (-40 to +80 Deg C)

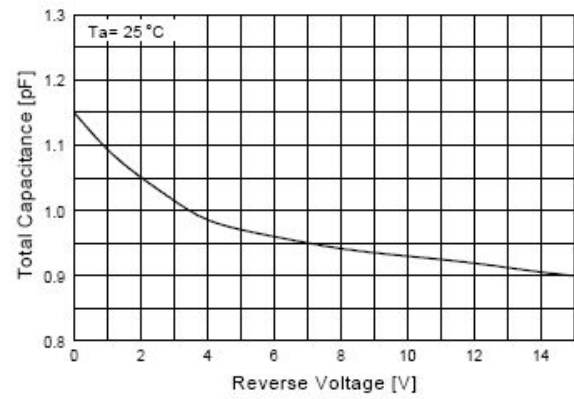
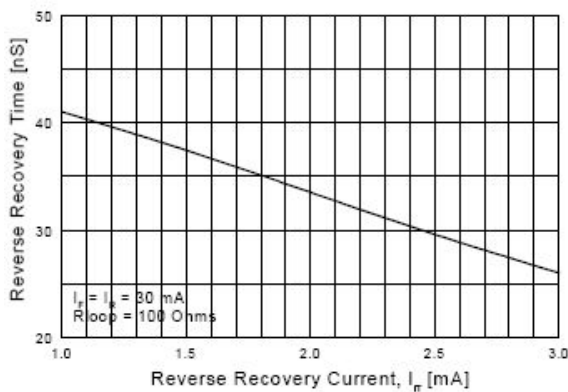
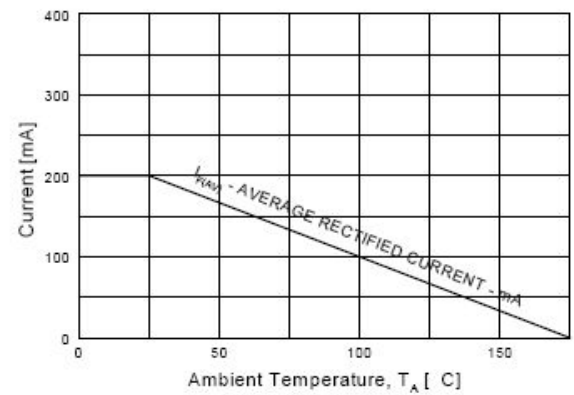


Figure 8. Total Capacitance



**Figure 9. Reverse Recovery Time vs
Reverse Recovery Current**



**Figure 10. Average Rectified Current ($I_{F(AV)}$)
versus Ambient Temperature (T_A)**