

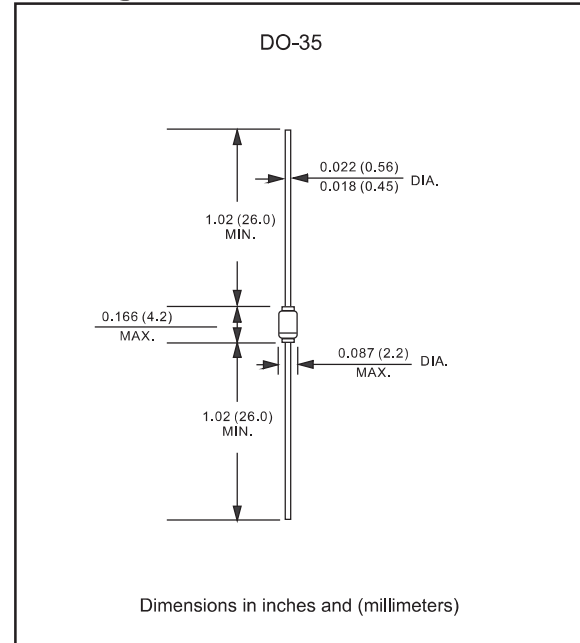
Features

- Axial lead type devices for through hole design
- Fast speed switching
- Silicon epitaxial planar chip struction
- Hermetically sealed glass
- Lead-free parts meet RoHS requirments

Mechanical data

- Case : Glass, DO-35
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : Approximated 0.125 gram

Package outline



Maximum ratings (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Repetitive peak reverse voltage		V_{RRM}			100	V
Reverse voltage		V_R			75	V
Peak forward surge current	$t_p=1\mu s$	I_{FSM}			2.0	A
Repetitive peak forward current		I_{FRM}			500	mA
Forward continuous current		I_F			300	mA
Average forward current		$I_{F(AV)}$			150	mA
Power dissipation		P_D			500	mW
Operating junction temperature range		T_J	-55		+150	$^{\circ}\text{C}$
Storage temperature range		T_{STG}	-55		+150	$^{\circ}\text{C}$

Electrical characteristics (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F=10\text{mA}$	V_F		0.86	1.00	V
Reverse current	$V_R=20\text{V}$	I_R			25	nA
	$V_R=20\text{V}, T_J=150^{\circ}\text{C}$	I_R			50	μA
	$V_R=75\text{V}$	I_R			5.0	μA
Breakdown voltage	$I_R=100\mu\text{A}, t_p/T=0.01, t_p=0.3\text{ms}$	$V_{(BR)}$	100			V
Diode capacitance	$V_R=0\text{V}, f=1\text{MHz}, V_{HF}=50\text{mV}$	C_D			4.0	pF
Rectification efficiency	$V_{HF}=2\text{V}, f=100\text{MHz}$	η_r	45			%
Reverse recovery time	$I_F=I_R=10\text{mA}, I_{RR}=1\text{mA}$	t_{rr}			8.0	ns
	$I_F=10\text{mA}, V_R=6\text{V}, I_{RR}=0.1 \times I_R, R_L=100\Omega$	t_{rr}			4.0	ns

Rating and characteristic curves

FIG.1-TYPICAL FORWARD CHARACTERISTICS

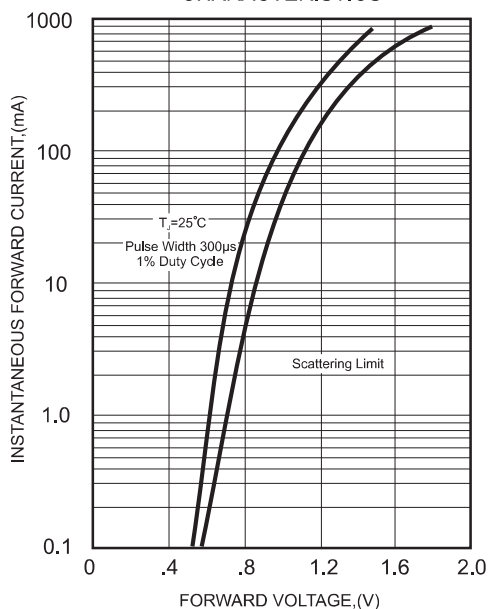


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

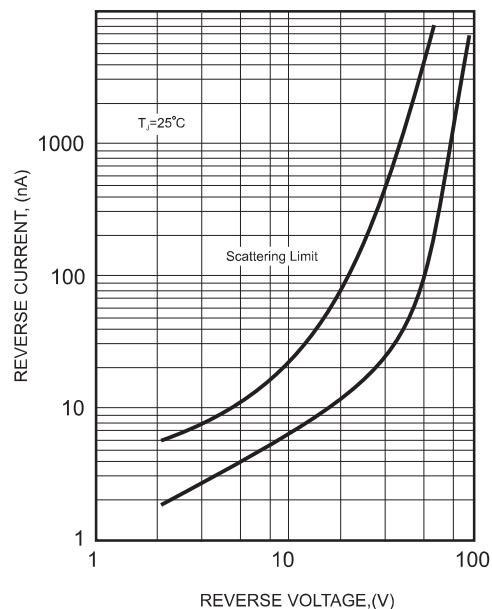


FIG.2 - TYPICAL DIODE CAPACITANCE

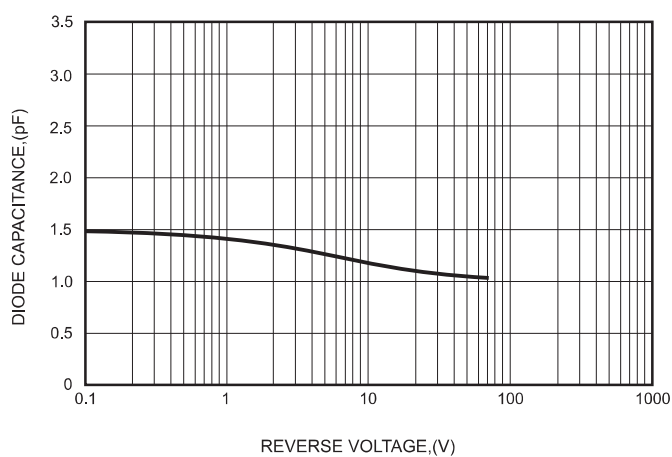
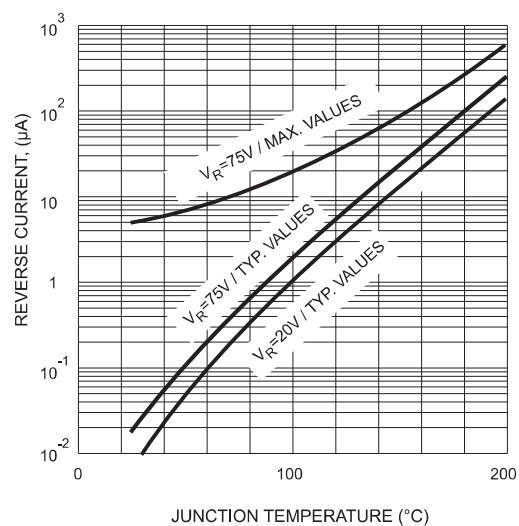


FIG.4 - REVERSE CURRENT VS. JUNCTION TEMPERATURE



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