

1SS270A

HIGH SPEED SWITCHING DIODE

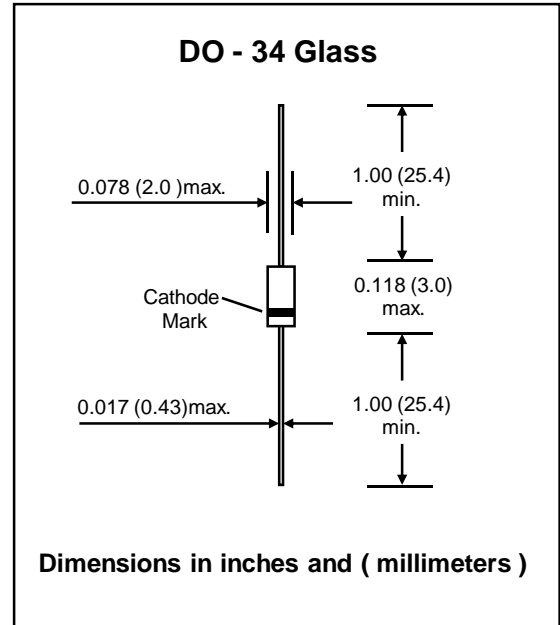
FEATURES :

- High switching speed: max. 3.5 ns
- Continuous reverse voltage: max. 60 V
- Peak reverse voltage: max. 70 V
- Pb / RoHS Free

MECHANICAL DATA :

Case: DO-34 Glass Case

Weight: approx. 0.093g



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	70	V
Maximum Reverse Voltage	V_R	60	V
Maximum Average Forward Current	$I_{F(AV)}$	150	mA
Maximum Peak Forward Current	I_{FM}	450	mA
Maximum Power Dissipation	P_D	250	mW
Maximum Non-repetitive Peak Forward Current	I_{FSM}	1.0	A
Maximum Junction Temperature	T_J	175	°C
Storage Temperature Range	T_S	-65 to + 175	°C

Electrical Characteristics (Ta = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	I_R	$V_R = 60 V$	-	-	1.0	μA
Forward Voltage	V_F	$I_F = 10 mA$	-	-	0.8	V
Capacitance	C	$f = 1MHz ; V_R = 1V$	-	-	3.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 10 mA , V_R = 6 V$ $R_L = 50 \Omega$	-	-	3.5	ns

RATING AND CHARACTERISTIC CURVES (1SS270A)

FIG.1 - FORWARD CURRENT Vs. FORWARD VOLTAGE

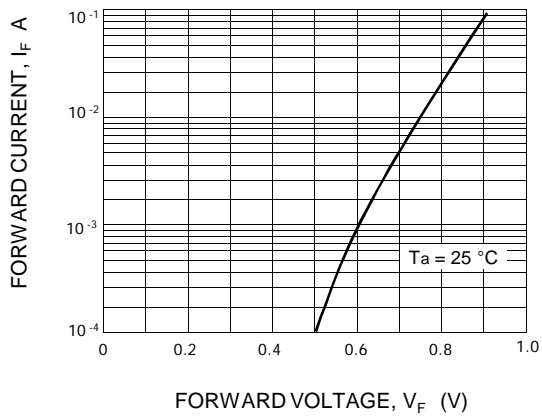
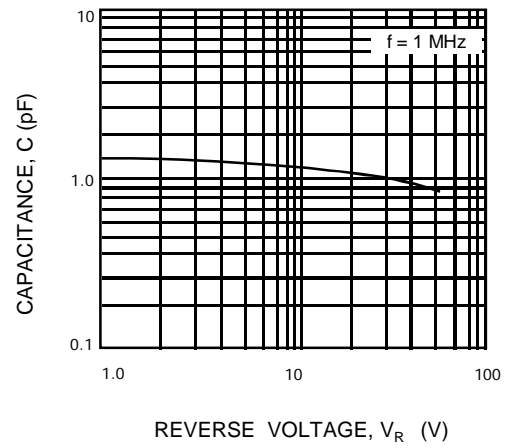


FIG.2 - CAPACITANCE Vs. REVERSE VOLTAGE



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