

# 1SS270A

## HIGH SPEED SWITCHING DIODE

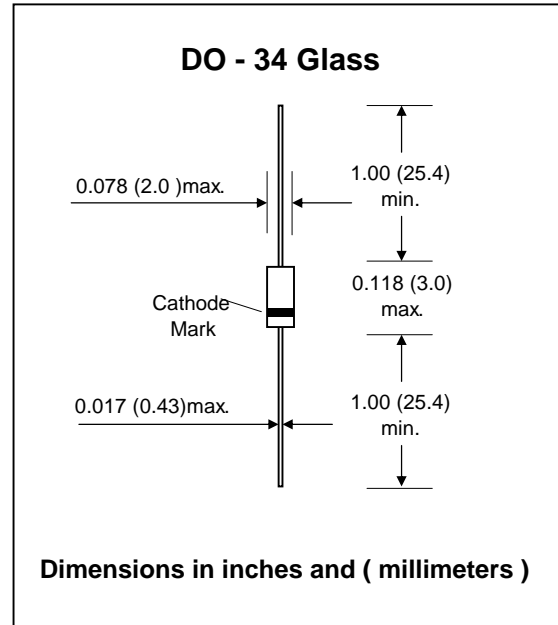
### FEATURES :

- 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 specific.)

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	$\mu A$
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