

# 1SS178

## HIGH SPEED SWITCHING DIODE

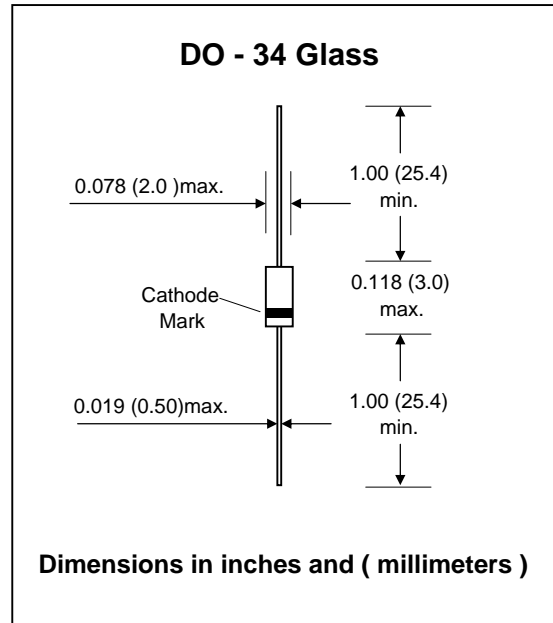
### FEATURES :

- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 80 V
- Repetitive peak reverse voltage: max. 90 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 Repetitive Peak Reverse Voltage	$V_{RRM}$	90	V
Maximum Continuous Reverse Voltage	$V_{RM}$	80	V
Maximum Average Forward Current	$I_F$	100	mA
Maximum Peak Forward Current	$I_{FM}$	300	mA
Maximum Power Dissipation	$P_D$	300	mW
Maximum Non-repetitive Peak Forward Current	$I_{FSM}$	1.0	A

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	$I_R$	$V_R = 80 \text{ V}$	-	-	0.5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 100 \text{ mA}$	-	-	1.2	V
Capacitance between terminals	$C_T$	$f = 1\text{MHz} ; V_R = 0.5 \text{ V}$	-	-	3.0	pF
Reverse Recovery Time	$T_{rr}$	$I_F = 10 \text{ mA} , V_R = 6 \text{ V}$ $R_L = 50 \Omega$	-	-	4.0	ns