

# 1SS119

## HIGH SPEED SWITCHING DIODE

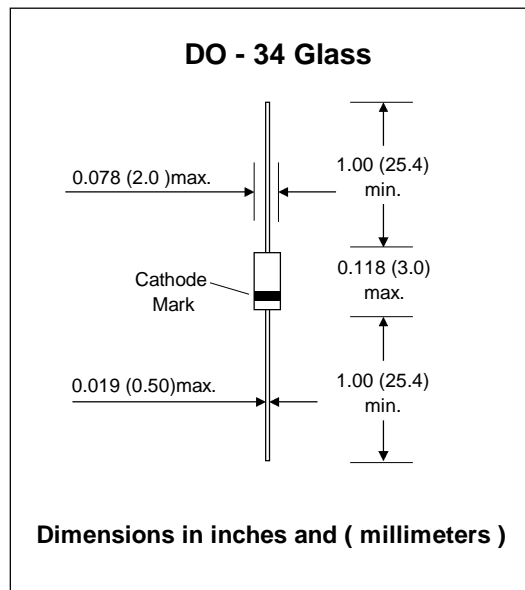
### FEATURES :

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time.(Trr = 3.5 ns max)
- Peak reverse voltage:max. 35 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
Peak Reverse Voltage	$V_{RM}$	35	V
Reverse Voltage	$V_R$	30	V
Average Rectified Current	$I_O$	150	mA
Peak Forward Current	$I_{FM}$	450	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}^*$	1.0	A
Power Dissipation	$P_D$	250	mW
Junction Temperature	$T_J$	175	°C
Storage Temperature	$T_{stg}$	-65 to + 175	°C

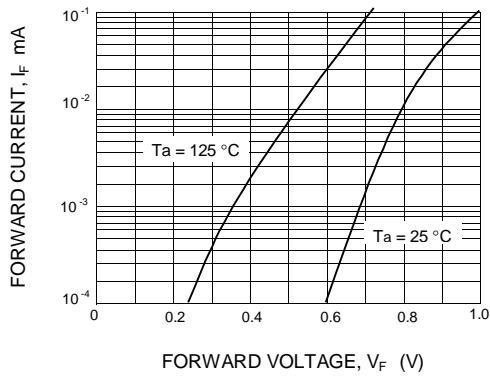
Note : Within 1s forward surge current

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

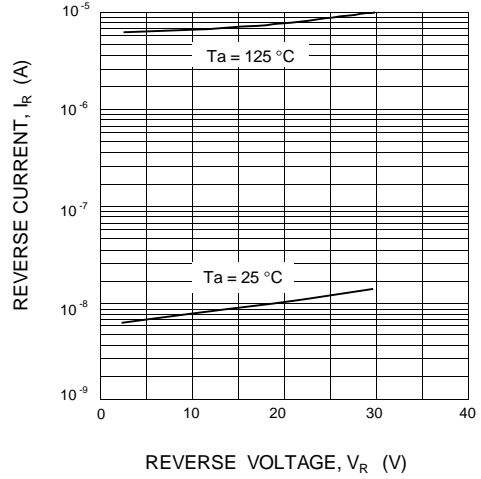
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 10 \text{ mA}$	-	-	0.8	V
Reverse Current	$I_R$	$V_R = 30 \text{ V}$	-	-	0.1	$\mu\text{A}$
Capacitance	C	$f = 1\text{MHz} ; V_R = 1.0$	-	-	3.0	pF
Reverse Recovery Time	Trr	$I_F = 10 \text{ mA} , V_R = 6 \text{ V}$ $R_L = 50 \Omega$	-	-	3.5	ns

**RATING AND CHARACTERISTIC CURVES ( 1SS119 )**

**FIG.1 - FORWARD CURRENT Vs. FORWARD VOLTAGE**



**FIG.2 - REVERSE CURRENT Vs. REVERSE VOLTAGE**



**FIG.3 - CAPACITANCE Vs. REVERSE VOLTAGE**

