

# 1SS166

## FEATURES :

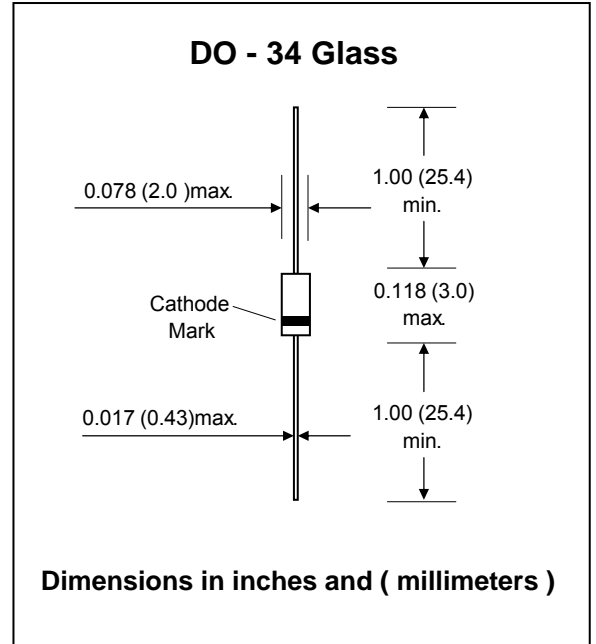
- Low forward voltage
- High breakdown voltage
- Low diode capacitance.
- Pb / RoHS Free

## MECHANICAL DATA :

Case: DO-34 Glass Case

Weight: approx. 0.11g

## SCHOTTKY BARRIER DIODE



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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	10	V
Average Rectified Current	$I_o$	15	mA
Power Dissipation	$P_D$	150	mW
Junction Temperature	$T_J$	100	°C
Storage temperature range	$T_{stg}$	-55 to + 100	°C

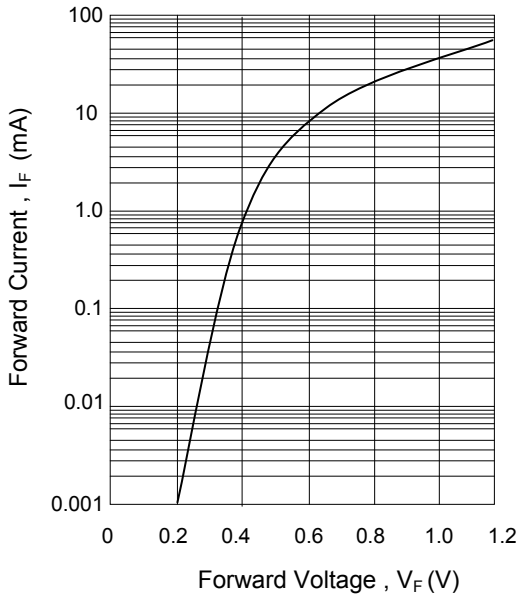
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.

## Electrical Characteristics ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

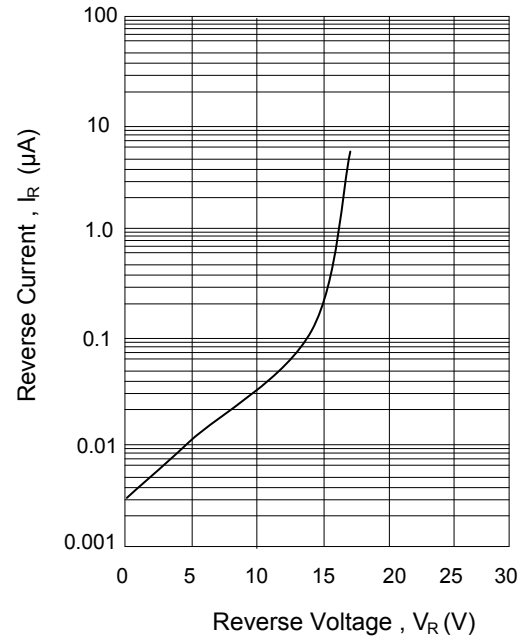
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 10\text{ V}$	-	-	10	$\mu\text{A}$
		$V_R = 2\text{ V}$	-	-	0.2	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 1\text{ mA}$	365	-	430	mV
		$I_F = 10\text{ mA}$	520	-	600	mV
Diode Capacitance	$C_d$	$V_R = 0\text{V}, f = 1\text{MHz}$	-	-	1.2	pF
Forward Voltage Deviation	$\Delta V_F$	$I_F = 10\text{ mA}$	-	-	$\pm 5$	mV

**RATING AND CHARACTERISTIC CURVES ( 1SS166 )**

**Forward Current VS. Forward Voltage**



**Reverse Current VS. Reverse Voltage**



**Diode capacitance VS. Reverse Voltage**

