

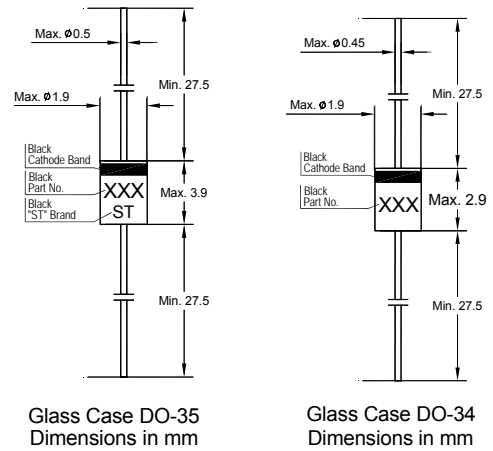
# 1SS86

## SILICON SCHOTTKY BARRIER DIODE

for UHF TV Tuner Mixer

### Features

- Low capacitance
- High reliability with glass seal



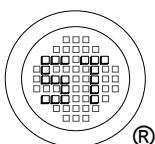
### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	3	V
Average Forward Current	$I_O$	30	mA
Power Dissipation	$P_{tot}$	150	mW
Junction Temperature	$T_J$	100	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 100	$^\circ\text{C}$

### Electrical Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Current at $V_F = 0.5\text{ V}$	$I_F$	8	-	mA
Reverse Voltage at $I_R = 1\text{ mA}$	$V_R$	3	-	V
Reverse Current at $V_R = 0.5\text{ V}$	$I_R$	-	50	$\mu\text{A}$
Capacitance at $V_R = 0.5\text{ V}$ , $f = 1\text{ MHz}$	C	-	0.85	pF
ESD Capability <sup>1)</sup> at $C = 200\text{ pF}$ , $R_L = 0\text{ }\Omega$ , both forward and reverse direction 1 pulse.	-	30	-	V

<sup>1)</sup> Failure criterion:  $I_R > 50\text{ }\mu\text{A}$  at  $V_R = 0.5\text{ V}$



**SEMTECH ELECTRONICS LTD.**

(Subsidiary of Sino-Tech International Holdings Limited, a company  
listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001:2004  
Certificate No. 7116



ISO 9001:2000  
Certificate No. 0506088

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