

**1SS345**

Silicon Epitaxial Schottky Barrier Diode

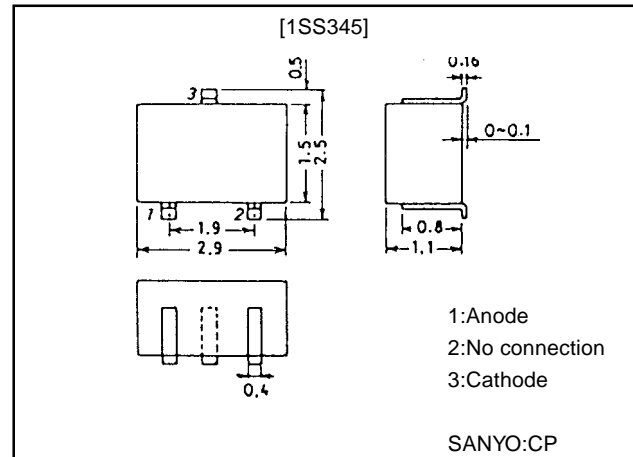
UHF Detector, Mixer Applications**Features**

- Small interterminal capacitance ($C=0.45\text{pF}$ typ).
- Low forward voltage and excellent detection efficiency ($V_F=0.35\text{V}$ max)
- High breakdown voltage ($V_R=55\text{V}$).
- Very small-sized package permitting the 1SS345-applied sets to be made small and slim.

Package Dimensions

unit:mm

1148A

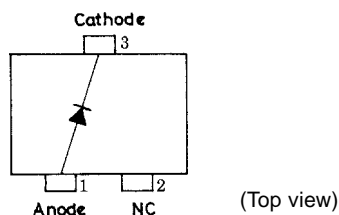
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		55	V
Forward Current	I_F		10	mA
Power Dissipation	P		150	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$
Reverse Burning	B_o	($C=25\text{pF}$)	2	erg

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=1\text{mA}$			0.35	V
Forward Current	I_F	$V_F=1\text{V}$	10			mA
Reverse Voltage	V_R	$I_R=100\mu\text{A}$	55			V
Reverse Current	I_R	$V_R=40\text{V}$			50	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		0.45		pF

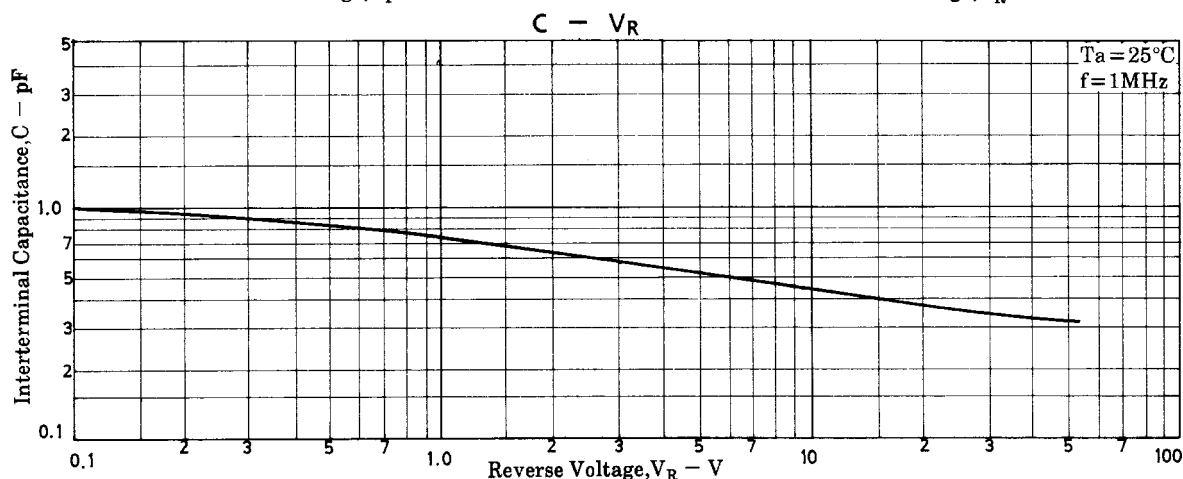
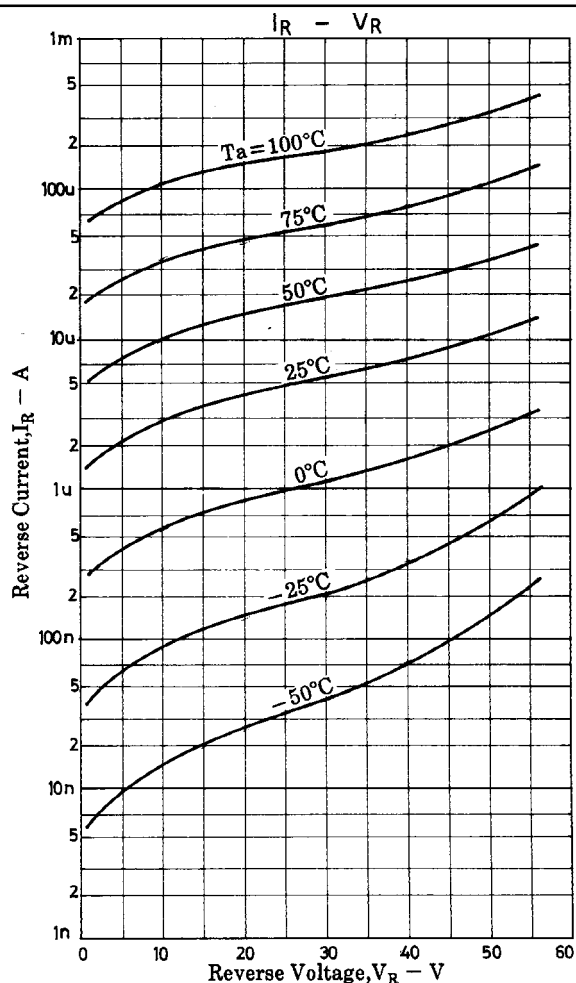
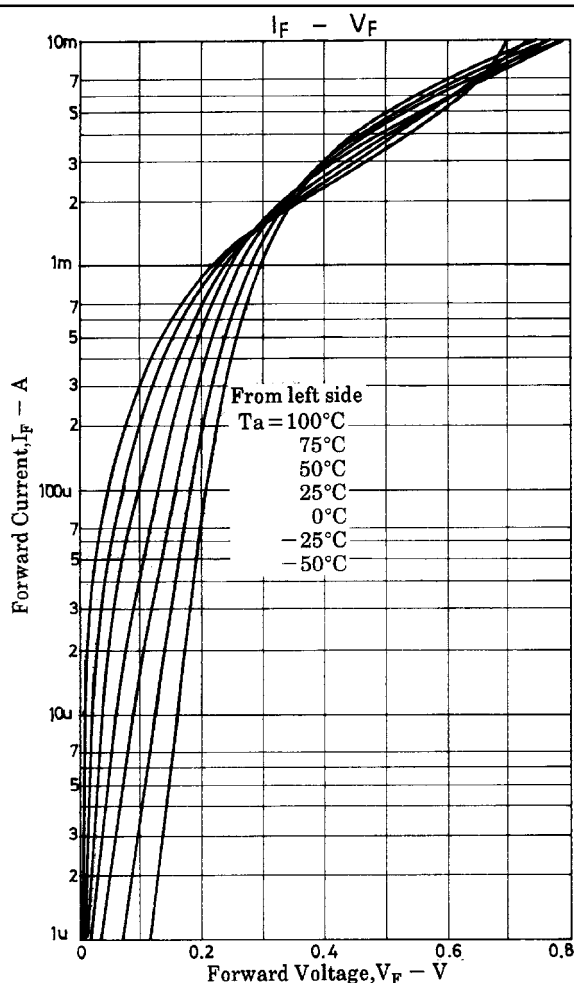
· Marking:AH

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1SS345



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