

1. Features

UHF Band Mixer

1SS315

Surface Mount Small Signal Schottky Diodes

SOD-323



2. Mechanical Data

- Case:Molded Plastic,SOD-323.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:ST.
- Marking:marked on body.

3. Maximum Ratings

Electrical Characteristics Rating at 25 °C ambient temperature unless otherwise specified.

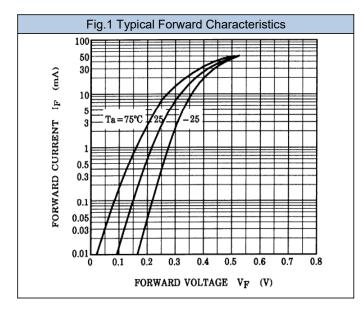
Characteristic	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	V _{RM}	5	V
Forward Current	I _F	30	mA
Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{stg}	-55 to+125	°C

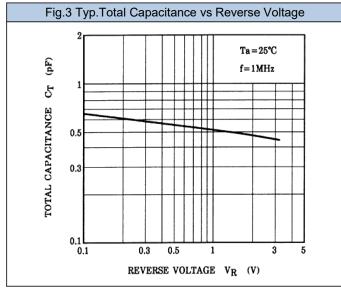
4. Electrical Characteristics (T_A=25 $^{\circ}$ C unless otherwise noted)

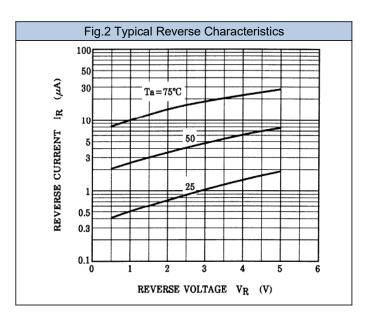
Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Forward Current	I _F	V _F = 0.5V	30	-	-	mA
Reverse Current	I _R	V _R = 0.5V	-	-	25	μA
Total Capacitance	Ст	V _R = 0 .2V, f = 1 MHz	-	0.6	-	pF



5. Rating And Characteristic Curves



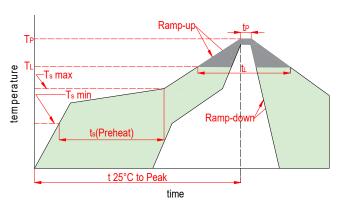




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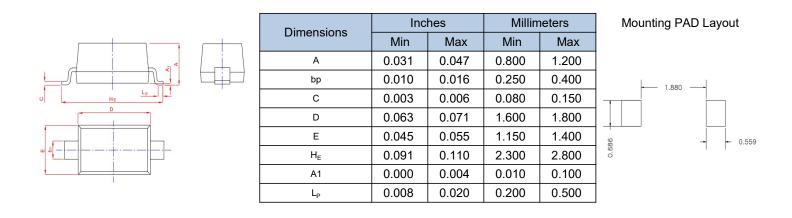
6. Soldering Parameters



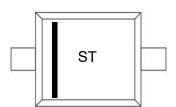
	Reflow Condition	Lead-free	
Pre Heat	Temp. min(T _s (min))	150 ℃	
	Temp. max(T _s (min))	200 ℃	
	Time(min to max)(t _s)	60~120s	
Aver. ramp	up rate(Liquidus Temp.)(T _L)to peak	3℃/s max	
T _s (max) to ⁻	T _L -Ramp-up Rate	3℃/s max	
Reflow	Temp.(T _L)(Liquidus)	217℃	
Reliow	Temp.(t _L)(Liquidus)	60~150s	
Peak Temp.(T _P)		260^{+0/-5}℃	
Time within actual peak Temp.(t _p)		30s max	
Ramp-down Rate		6℃/s max	
Time 25℃ to peak Tempe.(T _p)		8 minutes max	
Do not exce	ed	260 ℃	

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7. Dimensions



8. Part Marking System



9. Package Information

Package	Туре	Marking Code	Tape Width (mm)	Quantity(pcs)	
SOD-323	1SS315	ST	8	3000	

4 of 4

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