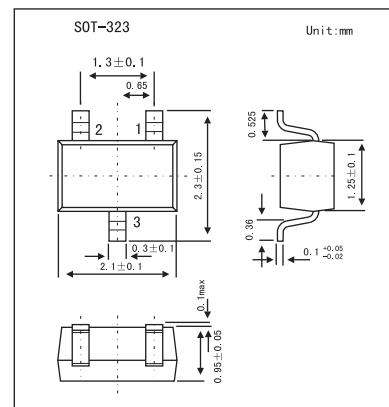


**SILICON SWITCHING DIODE****1SS305****■ Features**

- Low capacitance:  $C_t = 4.0 \text{ pF MAX.}$
- High speed switching:  $t_{rr} = 3.0 \text{ ns MAX.}$
- Wide applications including switching, limitter, clipper.

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

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	$V_{RM}$	100	V
DC Reverse Voltage	$V_R$	100	V
Peak Forward Current	$I_{FM}$	300	mA
Average Rectified Current	$I_o$	100	mA
DC Forward Current	$I_F$	100	mA
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$
Junction to Ambient	$R_{th(j-a)}$	0.85	$^\circ\text{C mW}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F(1)$	$I_F = 10 \text{ mA}$		720	850	mV
	$V_F(2)$	$I_F = 50 \text{ mA}$		850	1000	
	$V_F(3)$	$I_F = 100 \text{ mA}$		950	1200	
Reverse current	$I_R$	$V_R = 50 \text{ V}$			1.0	$\mu\text{A}$
Capacitance	$C_t$	$V_R = 0, f = 1.0 \text{ MHz}$		2.0	4.0	pF
Reverse recovery time	$t_{rr}$	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 100 \Omega$			3.0	ns

**■ Marking**

Marking	A14
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