

SMD Type

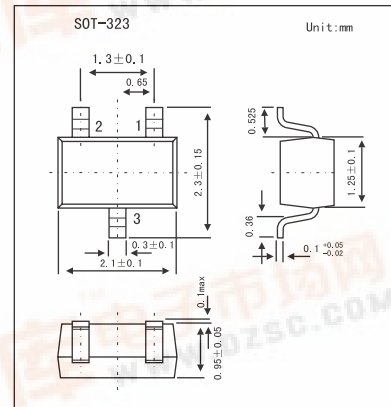
Diodes

HIGH SPEED SWITCHING APPLICATIONS

1SS401

■ Features

- Low forward voltage:  $V_{F(3)} = 0.38\text{ V(Typ)}$
- Low reverse current:  $I_R = 50\ \mu\text{ A}$
- Small total capacitance:  $C_T = 46\text{ pF(Typ)}$



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

Parameter	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	25	V
Reverse voltage	$V_R$	20	V
Maximum (peak) forward current	$I_{FM}$	700	mA
Average forward current	$I_o$	300	mA
Power dissipation	$P$	100	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

(\*) Unit rating.Total rating = Unit rating  $\times$  0.7

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F(1)}$	$I_F = 1\text{ mA}$		0.16		V
	$V_{F(2)}$	$I_F = 10\text{ mA}$		0.22		
	$V_{F(3)}$	$I_F = 300\text{ mA}$		0.38	0.45	
Reverse Current	$I_R$	$V_R = 20\text{ V}$			50	$\mu\text{ A}$
Total capacitance	$C_T$	$V_R = 0, f = 1.0\text{ MHz}$		46		pF

■ Marking

Marking	D9
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