

# TOSHIBA

1SS401

TENTATIVE TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS401

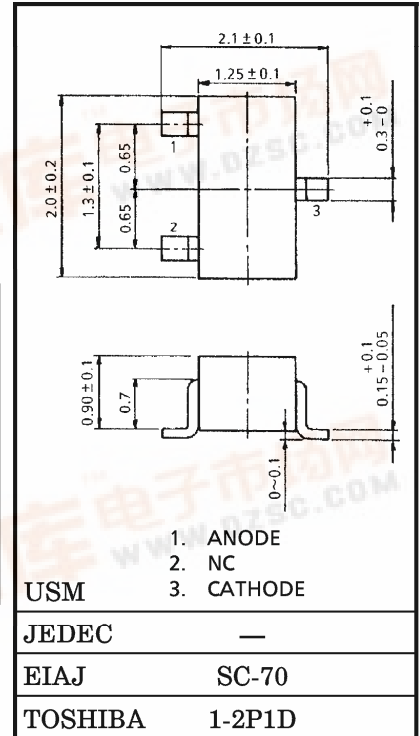
HIGH SPEED SWITCHING APPLICATIONS

Unit in mm

- Low Forward Voltage :  $V_F(3) = 0.38\text{ V (Typ.)}$
- Low Reverse Current :  $I_R = 50\ \mu\text{A (Max.)}$
- Small Total Capacitance :  $C_T = 46\ \text{pF (Typ.)}$

MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	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	$T_{stg}$	-55~125	$^\circ\text{C}$

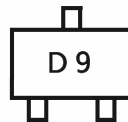
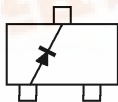


ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	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	$C_T$	$V_R = 0, f = 1\ \text{MHz}$	—	46	—	pF

PIN ASSIGNMENT (TOP VIEW)

MARKING



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