

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

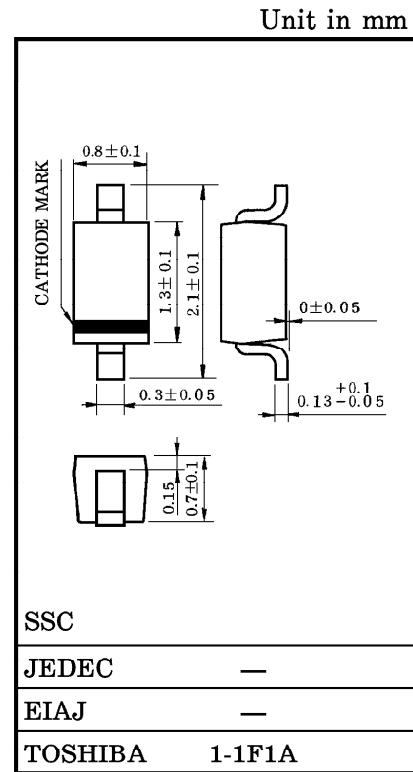
# 1SS373

HIGH SPEED SWITCHING APPLICATION

- Small Package
- Low Forward Voltage :  $V_F = 0.23V$  (TYP.) @  $I_F = 5mA$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	$V_{RM}$	15	V
Reverse Voltage	$V_R$	10	V
Maximum (Peak) Forward Current	$I_{FM}$	200	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10ms)	$I_{FSM}$	1	A
Power Dissipation	$P^*$	150	mW
Junction Temperature	$T_j$	125	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ C$
Operating Temperature Range	$T_{opr}$	-40~100	$^\circ C$



Weight : 1.9mg

\* Mounted on a glass epoxy circuit board of 20×20mm Pad dimension of 4×4mm.

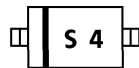
ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_F = 1mA$	—	0.18	—	V
	$V_{F(2)}$	$I_F = 5mA$	—	0.23	0.30	
	$V_{F(3)}$	$I_F = 100mA$	—	0.35	0.50	
Reverse Current	$I_R$	$V_R = 10V$	—	—	20	$\mu A$
Total Capacitance	$C_T$	$V_R = 0, f = 1MHz$	—	20	40	pF

EQUIVALENT CIRCUIT (TOP VIEW)



MARKING



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