

TOSHIBA DIODE SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER TYPE

1SS378

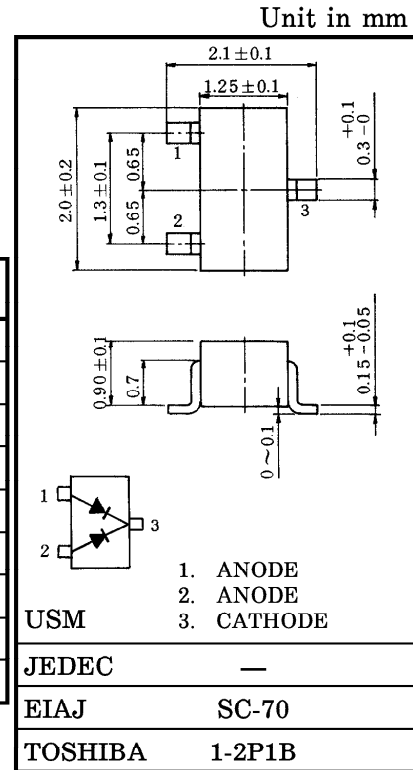
HIGH SPEED SWITCHING.

- Low Forward Voltage : $V_F = 0.23V$ (Typ.) @ $I_F = 5mA$
- Small Package : SC-70

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	100	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ C$
Operating Temperature Range	T_{opr}	$-40 \sim 100$	$^\circ C$

※ : Unit Rating. Total Rating = Unit Rating $\times$ 1.5

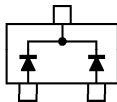


Weight : 0.006g

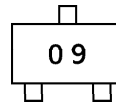
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

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
	$V_{F(3)}$	$I_F = 100mA$	—	0.35	0.50	V
Reverse Current	I_R	$V_R = 10V$	—	—	20	μA
Total Capacitance	C_T	$V_R = 0, f = 1MHz$	—	20	40	pF

EQUIVALENT CIRCUIT (TOP VIEW)



Marking



961001EAA2

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