

**TOSHIBA**

**1SS385**

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS385

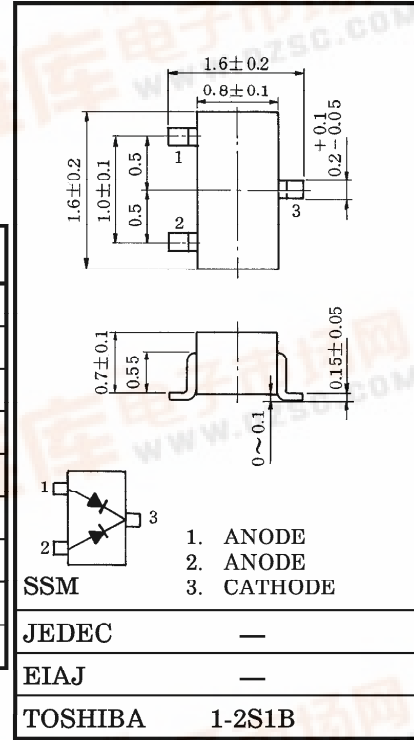
HIGH SPEED SWITCHING.

Unit in mm

- Low Forward Voltage :  $V_F(2) = 0.23V$  (Typ.) @  $I_F = 5mA$
- Small Package

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	$T_{stg}$	-55~125	$^\circ C$
Operating Temperature Range	$T_{opr}$	-40~100	$^\circ C$



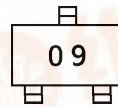
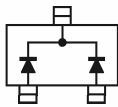
※ : Unit Rating. Total Rating=Unit Rating×1.5

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	$\mu A$
Total Capacitance	$C_T$	$V_R = 0, f = 1MHz$	—	20	40	pF

EQUIVALENT CIRCUIT (TOP VIEW)

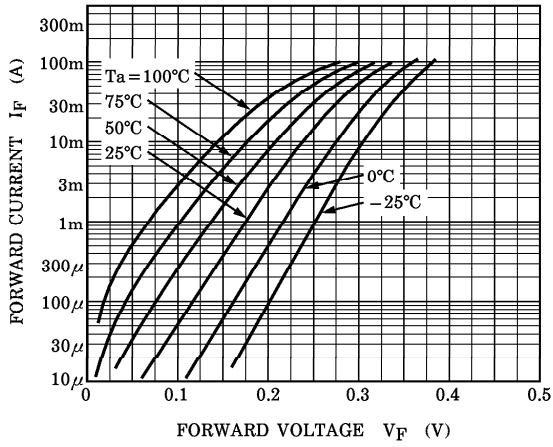
Marking



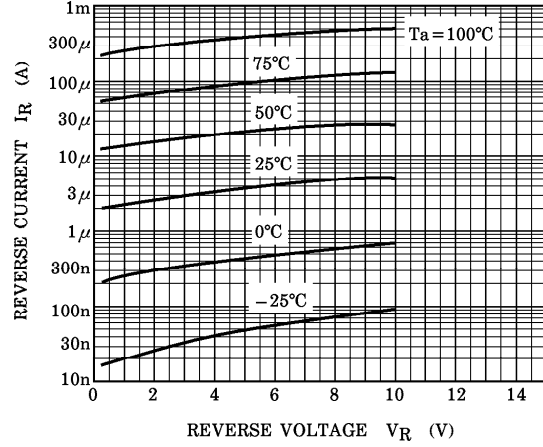
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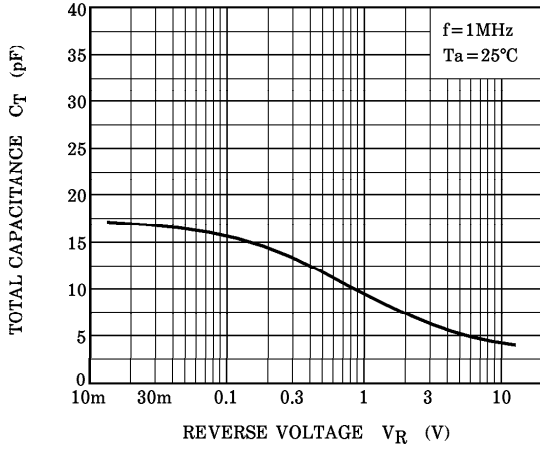
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



$P - T_a$

