

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

# 1SS385F

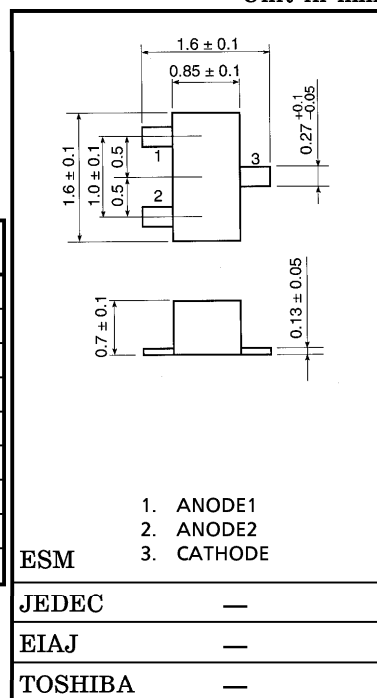
HIGH SPEED SWITCHING

Unit in mm

- Low Forward Voltage :  $V_F = 0.23 \text{ V (Typ.) @ } I_F = 5 \text{ mA}$
- Ultra-Small Package

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

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 (10 ms)	$I_{FSM}$	1 (*)	A
Power Dissipation	P	100	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ\text{C}$
Operating Temperature Range	$T_{opr}$	-40~100	$^\circ\text{C}$

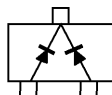


(\*) Unit Rating. Total Rating = Unit Rating  $\times$  1.5

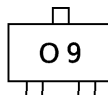
ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

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

EQUIVALENT CIRCUIT (TOP VIEW)



Marking



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