

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

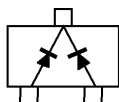
(*) Unit Rating. Total Rating = Unit Rating $\times$ 1.5

		1. ANODE1 2. ANODE2 3. CATHODE
ESM		
JEDEC	—	
EIAJ	—	
TOSHIBA	—	

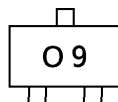
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

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	μA
Total Capacitance	C_T	$V_R = 0, f = 1 \text{ MHz}$	—	20	40	pF

EQUIVALENT CIRCUIT (TOP VIEW)



Marking



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