

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS385F

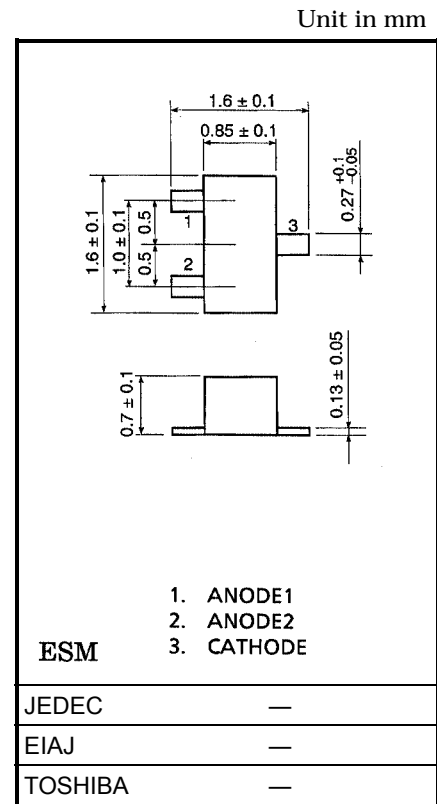
High Speed Switching

- Low forward voltage: $V_F = 0.23V$ (typ.) @ $I_F = 5mA$
- Ultra-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	$^\circ C$

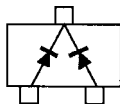
*: Unit rating. Total rating = unit rating \times 1.5



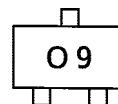
Electrical Characteristics ($T_a = 25^\circ C$)

Characteristic	Symbol	Test Circuit	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



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