

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1SS388

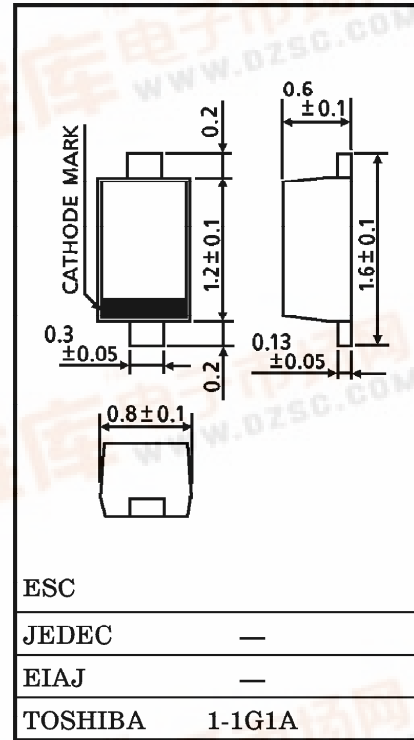
HIGH SPEED SWITCHING APPLICATION

Unit in mm

- Small Package
- Low Forward Voltage : $V_{F(3)} = 0.54V$ (Typ.)
- Low Reverse Current : $I_R = 5\mu A$ (Typ.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current (10ms)	I_{FSM}	1	A
Power Dissipation	P^*	150	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	-55~125	$^\circ C$
Operating Temperature Range	T_{opr}	-40~100	$^\circ C$



Weight : 1.4mg

※ Mounted on a glass epoxy circuit board of 20×20mm Pad dimension of 4×4mm.

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_F = 1mA$	—	0.28	—	V
	$V_{F(2)}$	$I_F = 10mA$	—	0.36	—	
	$V_{F(3)}$	$I_F = 50mA$	—	0.54	0.60	
Reverse Current	I_R	$V_R = 10V$	—	—	5	μA
Total Capacitance	C_T	$V_R = 0, f = 1MHz$	—	18	25	pF

EQUIVALENT CIRCUIT (TOP VIEW)

MARKING



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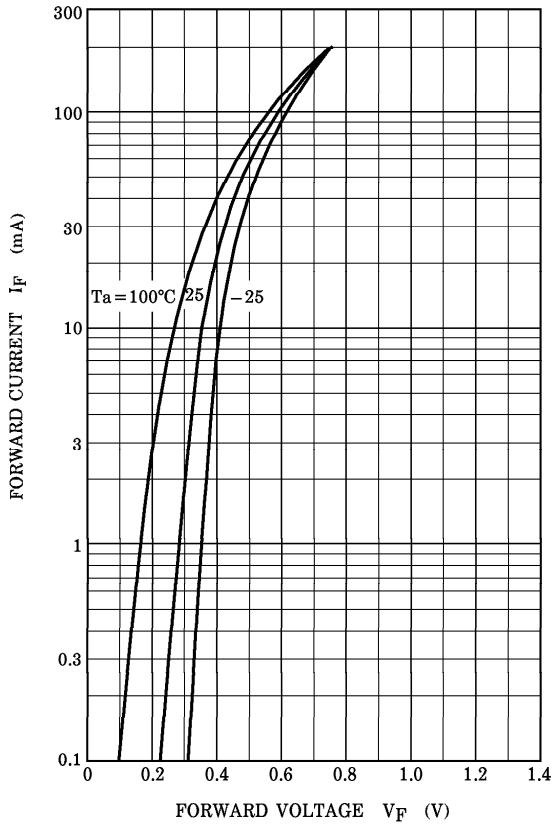
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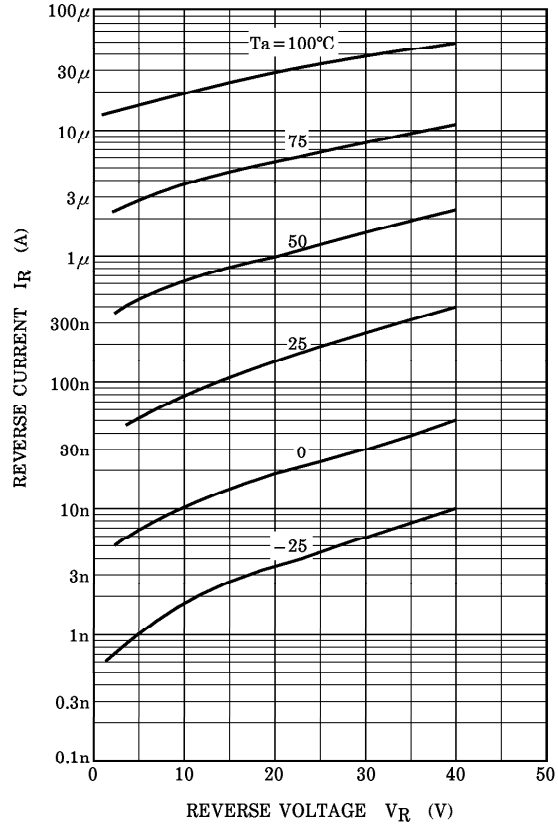
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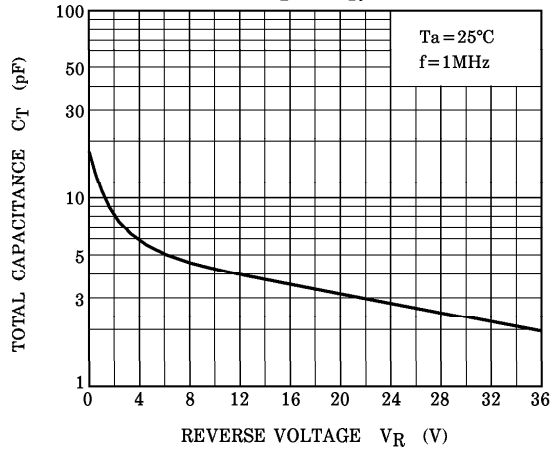
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



$P - T_a$

