TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

155369

LOW VOLTAGE HIGH SPEED SWITCHING

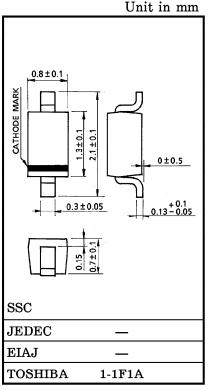
Small Package

• Low Forward Voltage : $V_{F(3)} = 0.54V$ (TYP.)

• Low Reverse Current : $I_R = 5\mu A$ (MAX.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	v_{RM}	45	V
Reverse Voltage	$V_{\mathbf{R}}$	40	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	IO	100	mA
Surge Current (10ms)	I_{FSM}	1	Α
Power Dissipation	P%	150	mW
Junction Temperature	T_{j}	125	°C
Storage Temperature Range	$\mathrm{T}_{\mathrm{stg}}$	-55~125	°C
Operating Temperature Range	$T_{ m opr}$	-40~100	°C



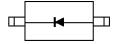
Weight: 1.9mg

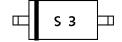
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _{F (1)}	$I_{\mathbf{F}} = 1 \text{mA}$	_	0.28	_	
	$V_{F(2)}$	$I_{\mathbf{F}} = 10 \text{mA}$	_	0.36	_	V
	$V_{F(3)}$	$I_{ m F} = 100 { m mA}$		0.54	0.60	
Reverse Current	${ m I_R}$	$V_R = 40V$	_	_	5	μ A
Total Capacitance	$\mathrm{c_{T}}$	$V_R=0$, f=1MHz	_	18	25	pF

PIN ASSIGNMENT (TOP VIEW)

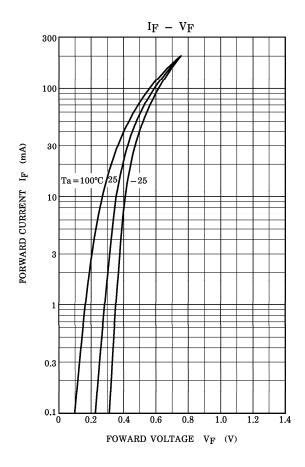
MARKING

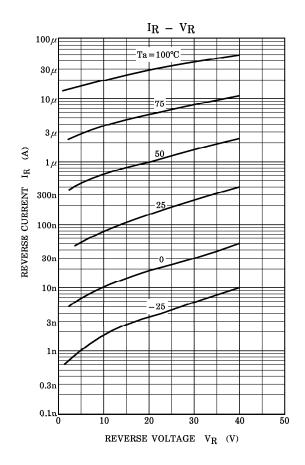


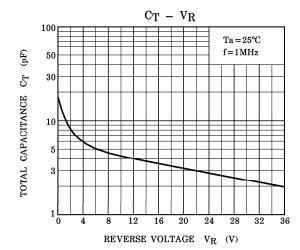


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