TOSHIBA DIODE SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER TYPE

155378

HIGH SPEED SWITCHING.

Low Forward Voltage : $V_F = 0.23 V$ (Typ.) $@I_F = 5 mA$

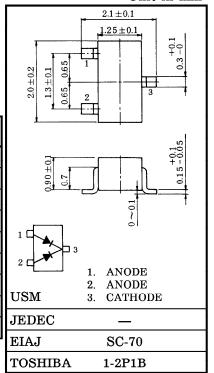
: SC-70 Small Package

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

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Maximum (Peak) Reverse Voltage	v_{RM}	15	v	
Reverse Voltage	$V_{ m R}$	10	V	
Maximum (Peak) Forward Current	$I_{\mathbf{FM}}$	200 ※	mA	
Average Forward Current	IO	100 ※	mA	
Surge Current (10ms)	I_{FSM}	1 ※	Α	
Power Dissipation	P	100	mW	
Junction Temperature	T_{j}	125	°C	
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	$^{\circ}\mathrm{C}$	
Operating Temperature Range	$T_{ m opr}$	-40~100	$^{\circ}\mathrm{C}$	

* : Unit Rating. Total Rating=Unit Rating × 1.5

Unit in mm



Weight: 0.006g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_{\mathbf{F}} = 1 \text{mA}$		0.18		V
	$V_{\mathbf{F}(2)}$	$I_{\mathbf{F}} = 5 \text{mA}$		0.23	0.30	V
	$V_{\mathbf{F(3)}}$	$I_{ m F} = 100 { m mA}$		0.35	0.50	V
Reverse Current	$I_{\mathbf{R}}$	$V_R = 10V$	_	_	20	μ A
Total Capacitance	C_{T}	$V_R=0$, f=1MHz	_	20	40	рF

EQUIVALENT CIRCUIT (TOP VIEW)



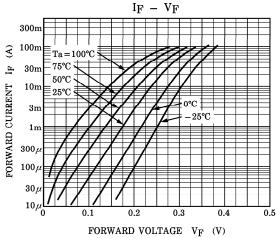
Marking

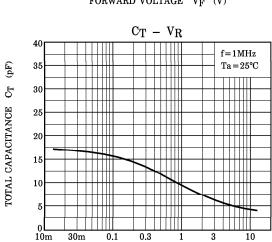


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REVERSE VOLTAGE V_R (V)

