TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

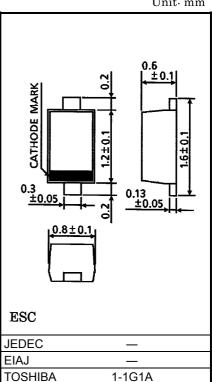
1SS388

High Speed Switching Application

- Small package •
- Low forward voltage: $V_F(3) = 0.54V$ (typ.) •
- Low reverse current: $I_R = 5\mu A$ (typ.)

Maximum Ratings (Ta = 25°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	Ι _Ο	100	mA	
Surge current (10ms)	I _{FSM}	1	А	
Power dissipation	P *	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	
Operating temperature range	T _{opr}	-40~100	°C	



Mounted on a glass epoxy circuit board of 20 × 20 mm, pad dimension of 4 × 4 mm.



Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	—	
	V _{F (2)}	_	I _F = 10mA	_	0.36	—	V
	V _{F (3)}	_	I _F = 50mA	_	0.54	0.60	
Reverse current	Ι _R		V _R = 10V	-	—	5	μA
Total capacitance	CT	_	V _R = 0, f = 1MH _z		18	25	pF

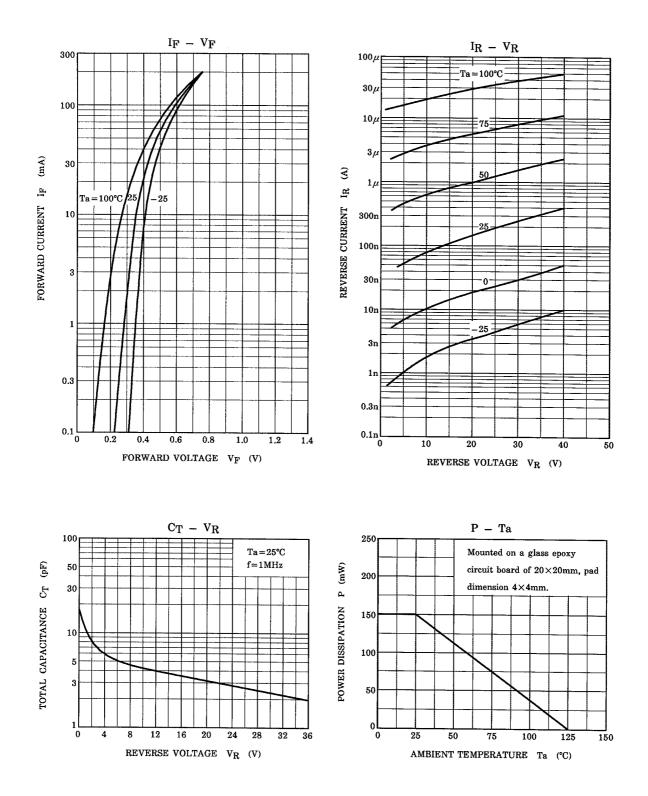
Equivalent Circuit (Top View)

Marking





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