TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

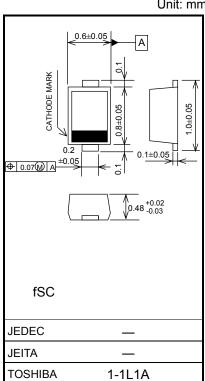
1SS413

High Speed Switching Application

- Low forward voltage : V_{F (3)} = 0.50V (typ.)
 - Low reverse current $: I_R = 0.5 \mu A \text{ (max)}$
- Small total capacitance : C_T = 3.9pF (typ.)

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V _{RM}	25	V
Reverse voltage	V _R	20	V
Maximum (peak) forward current	I _{FM}	100	mA
Average forward current	Ι _Ο	50	mA
Surge current (10ms)	I _{FSM}	1	Α
Power dissipation	P *	100	mW
Junction temperature	Тј	125	°C
Storage temperature range	T _{stg}	-55~125	°C



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

Weight:0.0006g(typ.)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.33	—	
	V _{F (2)}	—	I _F = 5mA	—	0.38	_	V
	V _{F (3)}	_	I _F = 50mA	_	0.50	0.55	
Reverse current	I _R	—	V _R = 20V	—	_	0.5	μA
Total capacitance	CT	—	V _R = 0, f = 1MH _z	_	3.9	_	pF

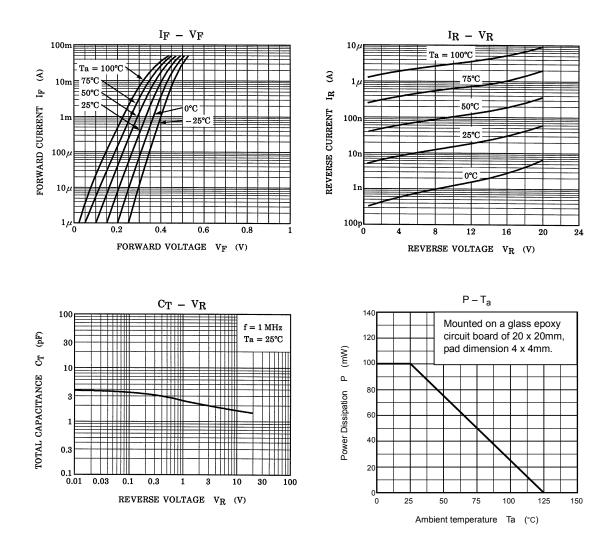
Equivalent Circuit (Top View)



Marking



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