TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS405

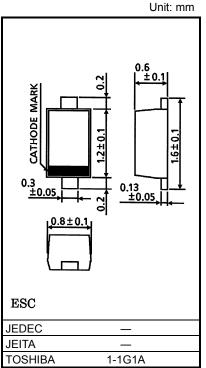
High Speed Switching Application

Low forward voltage : V_F (3) = 0.50V (typ.)
 Low reverse current : I_R= 0.5µA (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	Io	50	mA
Surge current (10ms)	I _{FSM}	1	Α
Power dissipation	P*	150	mW
Junction temperature	Tj	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: 1.4mg(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	_	٧
	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

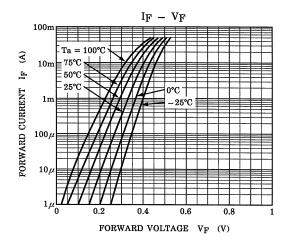
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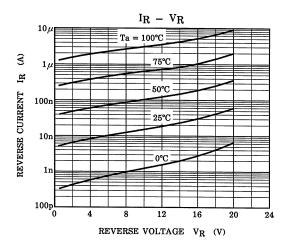
Equivalent Circuit (Top View)

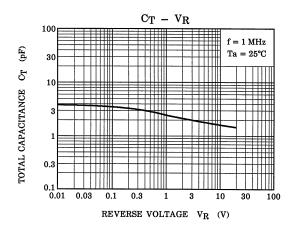
Marking

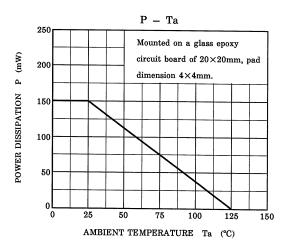












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