TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS418

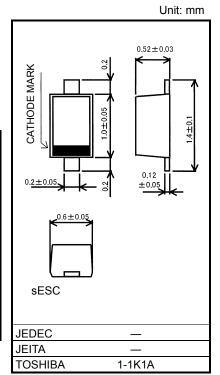
High Speed Switching Application

• Low forward voltage : $V_{F(3)} = 0.23V \text{ (typ.)} @ I_{F} = 5\text{mA}$

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	35	V
Reverse voltage	V _R	30	٧
Maximum (peak) forward current	I _{FM}	200	mA
Average forward current	Io	100	mA
Surge current (10ms)	I _{FSM}	1	Α
Power dissipation	P*	100	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 × 20mm, pad dimension of 4 × 4mm.



Weight: 0.0011g(Typ.)

Electrical Characteristics (Ta = 25°C)

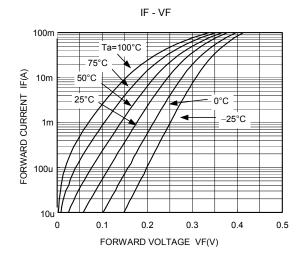
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	_	I _F = 1mA	_	0.18	_	
	V _{F (2)}	_	I _F = 5mA	_	0.23	_	V
	V _{F (3)}	_	I _F = 100mA	_	0.38	0.50	
Reverse current	I _R	_	V _R = 10V	_	-	20	μΑ
Reverse current	I _R	_	V _R = 30V	_	_	50	μA
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	15	_	pF

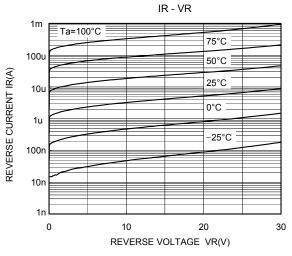
Equivalent Circuit (Top View)

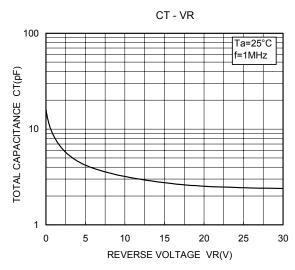
Marking

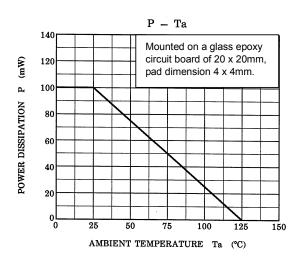












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