TOSHIBA Diode Silicon Epitaxial Planar Type

1SS412

General-Purpose Rectifier Applications

Low forward voltage : V_F = 1.0 V (typ.)
 Low reverse current : I_R = 0.1 nA (typ.)
 Small total capacitance : C_T = 3.0 pF (typ.)

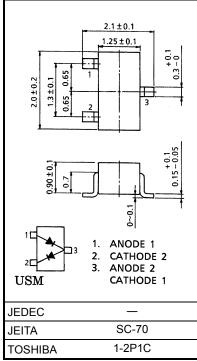
• Small package : SC-70

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V _R	80	V
Maximum (peak) forward current	I _{FM}	300 *	mA
Average forward current	IO	100 *	mA
Surge current (10 ms)	I _{FSM}	1 *	А
Power dissipation	Р	100	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	- 55~150	°C

*: Unit rating. Total rating = unit rating × 0.7

Unit: imm



Weight: 0.006 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V_{F}	_	I _F = 100 mA	_	1.0	1.3	V
Reverse current	I _R	_	V _R = 80 V	_	0.1	10	nA
Total capacitance (between cathode and anode)	C _T	_	V _R = 0, f = 1 MH _z		3.0		pF

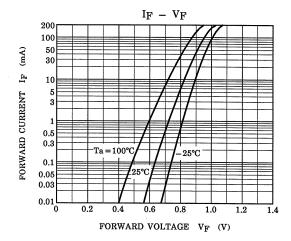
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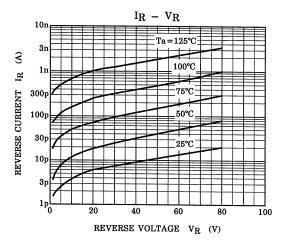
Equivalent Circuit (Top View)

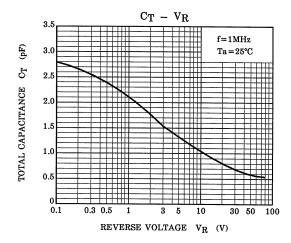
Marking

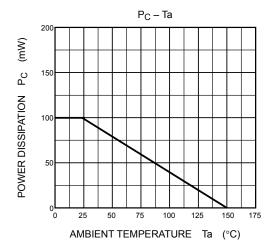












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