TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS315

UHF Band Mixer Applications

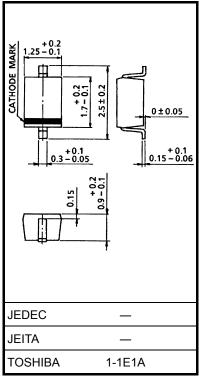
Unit: mm

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	5	V
Forward current	lF	30	mA
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



Weight: 0.004 g (typ.)

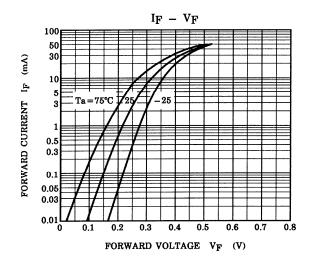
Electrical Characteristics (Ta = 25°C)

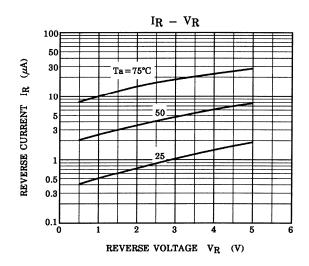
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _F	I _F = 2 mA	_	0.25	_	V
Forward current	l _F	V _F = 0.5 V	30	_	_	mA
Reverse current	I _R	V _R = 0.5 V	_	_	25	μА
Total capacitance	C _T	V _R = 0.2 V, f = 1 MHz	_	0.6	_	pF

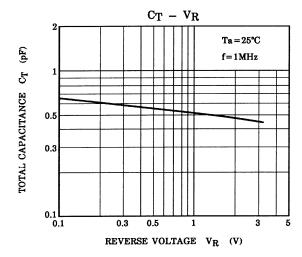
Marking



Start of commercial production 1987-05







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