

TOSHIBA DIODE Silicon Epitaxial Schottky Barrier Type

JDH2S03S

UHF Band Mixer

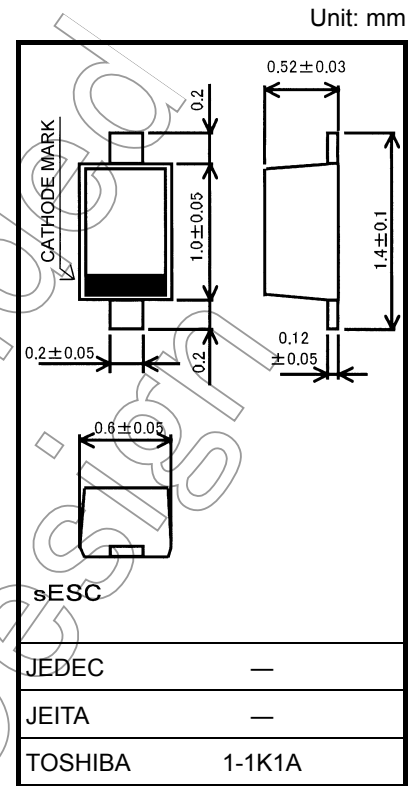
- High reverse voltage: $V_R = 30V$
- Low forward voltage: $V_F = 0.4V$ (max)

Absolute Maximum Ratings ($T_a = 25^\circ C$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	30	mA
Junction temperature	T_j	125	$^\circ C$
Storage temperature range	T_{stg}	-55 to 125	$^\circ C$

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).



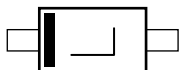
Weight: 1.1 mg (typ.)

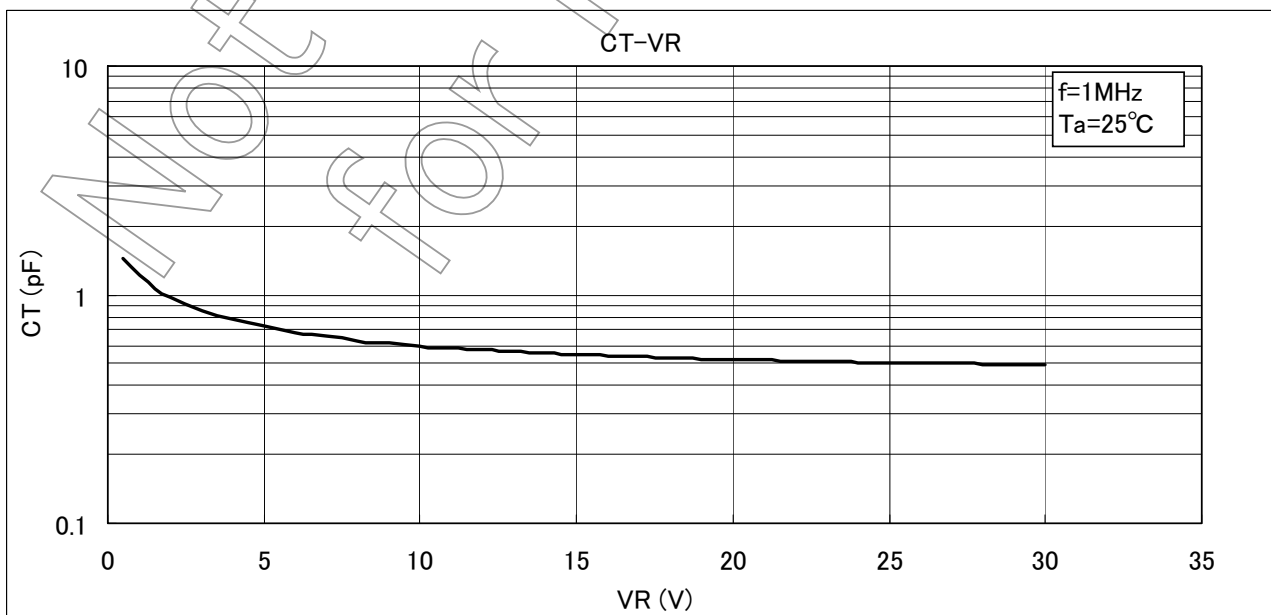
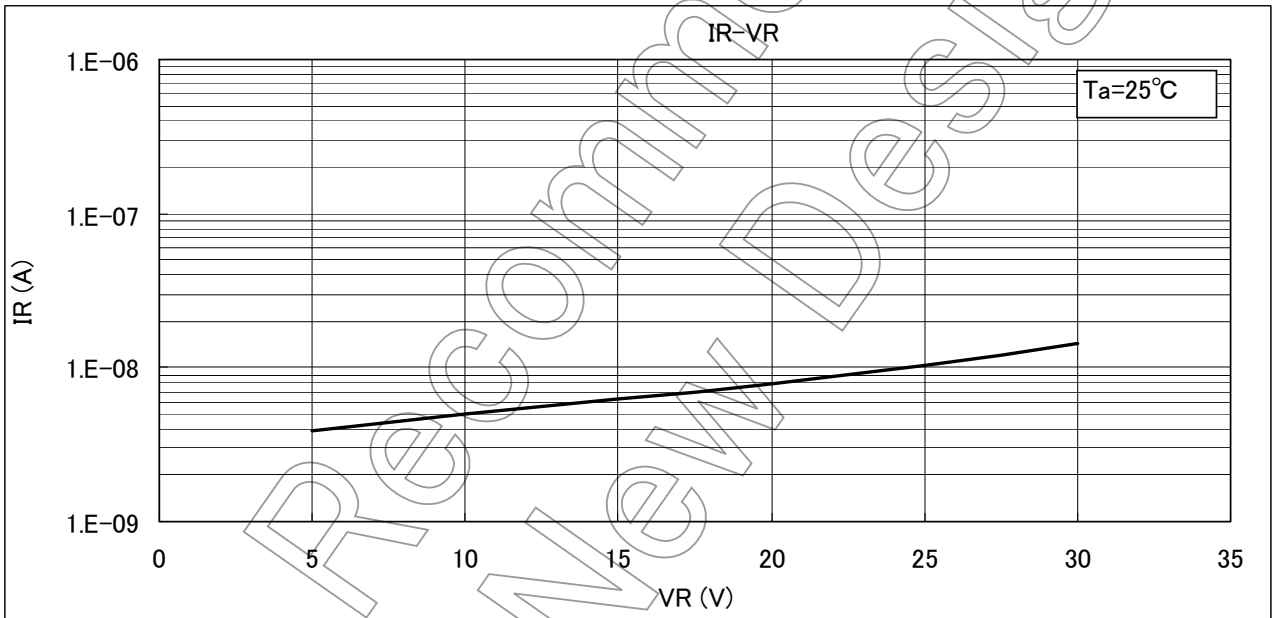
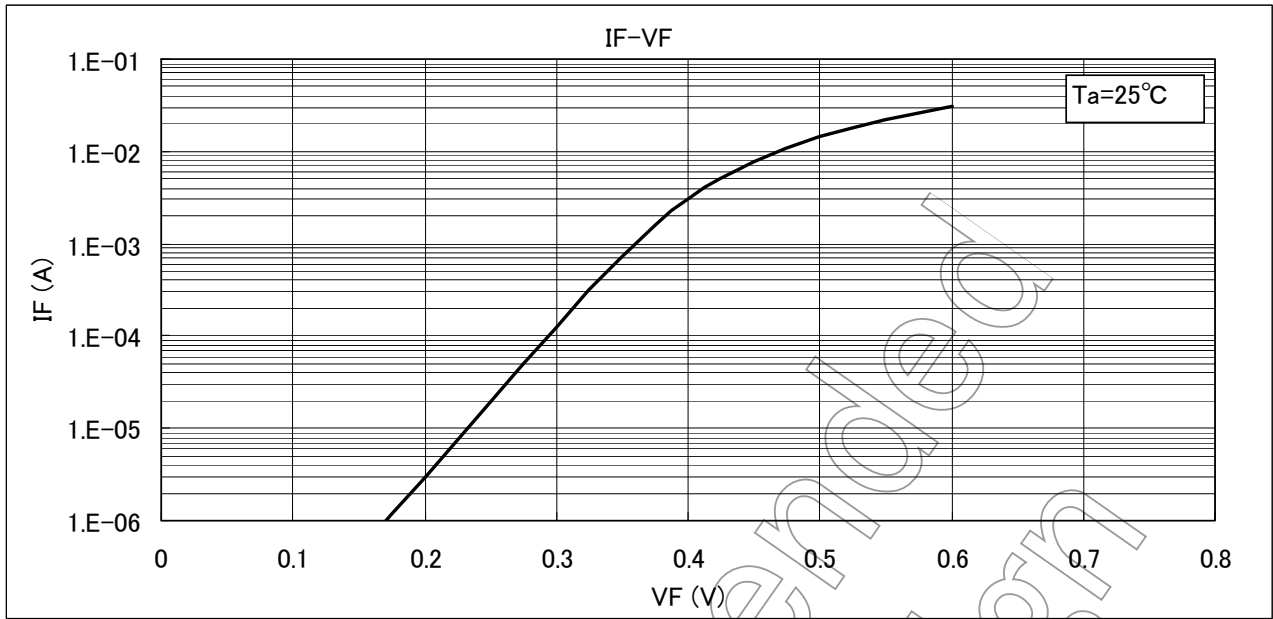
Electrical Characteristics ($T_a = 25^\circ C$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 1mA$	—	—	0.4	V
Reverse current	I_R	$V_R = 30 V$	—	—	0.5	μA
Capacitance	C_T	$V_R = 1 V, f = 1MHz$	—	1.2	—	pF

Note: Signal level when capacitance is measured: $V_{sig} = 20 mV_{rms}$

Marking





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