

1SS384

Low Voltage High Speed Switching

Unit: mm

- Composed of 2 independent diodes.
- Low forward voltage: $V_F(2) = 0.23V$ (typ.) @ $I_F = 5mA$

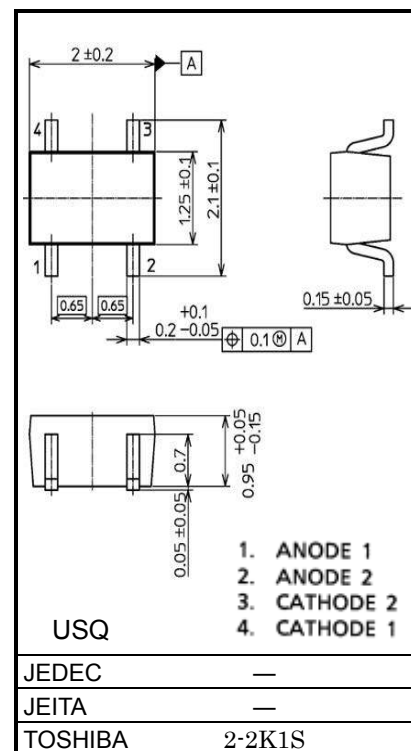
Absolute Maximum Ratings ($T_a = 25^\circ C$)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	15	V
Reverse voltage	V_R	10	V
Maximum (peak) forward current	I_{FM}	200 *	mA
Average forward current	I_O	100 *	mA
Surge current (10ms)	I_{FSM}	1 *	A
Power dissipation	P	100 *	mW
Junction temperature	T_j	125	$^\circ C$
Storage temperature range	T_{stg}	-55 to 125	$^\circ C$
Operating temperature range	T_{opr}	-40 to 100	$^\circ C$

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).

*: Unit rating. Total rating = unit rating $\times$ 1.5

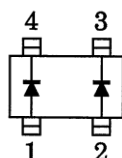


Weight: 0.006g (typ.)

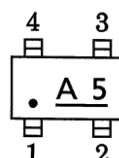
Electrical Characteristics ($T_a = 25^\circ C$)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F(1)$	$I_F = 1mA$	—	0.18	—	V
	$V_F(2)$	$I_F = 5mA$	—	0.23	0.30	
	$V_F(3)$	$I_F = 100mA$	—	0.35	0.50	
Reverse current	I_R	$V_R = 10V$	—	—	20	μA
Total capacitance	C_T	$V_R = 0V, f = 1MHz$	—	20	40	pF

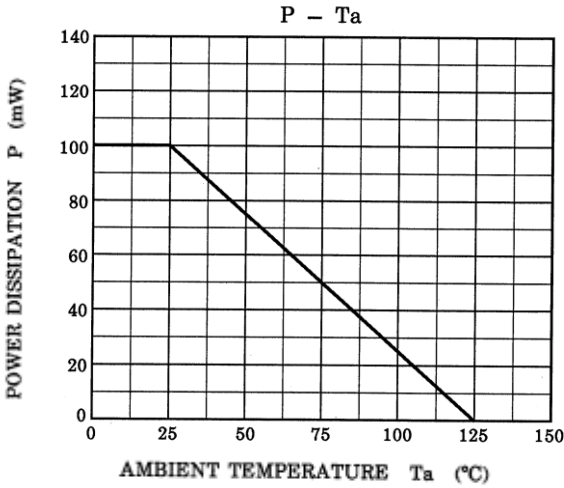
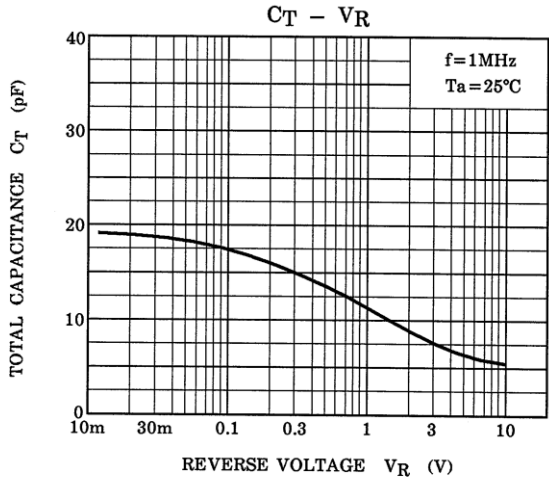
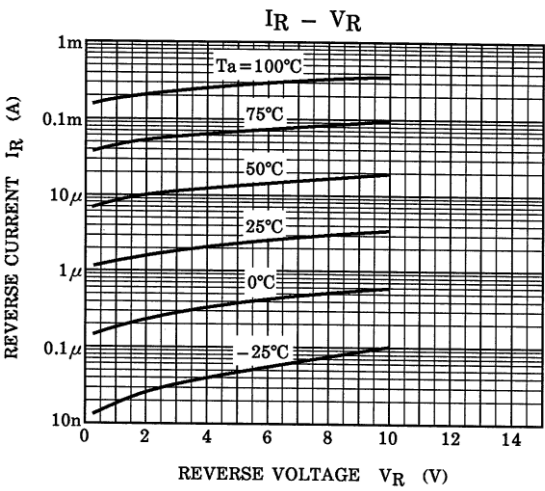
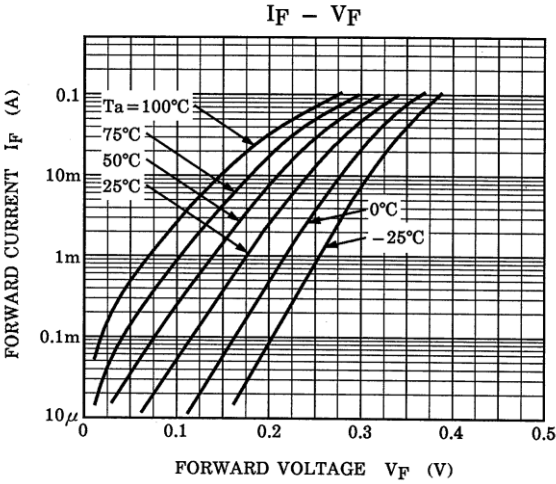
Pin Assignment (Top View)



Marking



Start of commercial production
1994-09



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