



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1SS361FV

Ultra-High-Speed Switching Applications

- Small package
- Excellent in forward current and forward voltage characteristics : $V_F(3) = 0.9\text{ V (typ.)}$
- Fast reverse recovery time : $t_{rr} = 1.6\text{ ns (typ.)}$
- Small total capacitance : $C_T = 0.9\text{ pF (typ.)}$

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

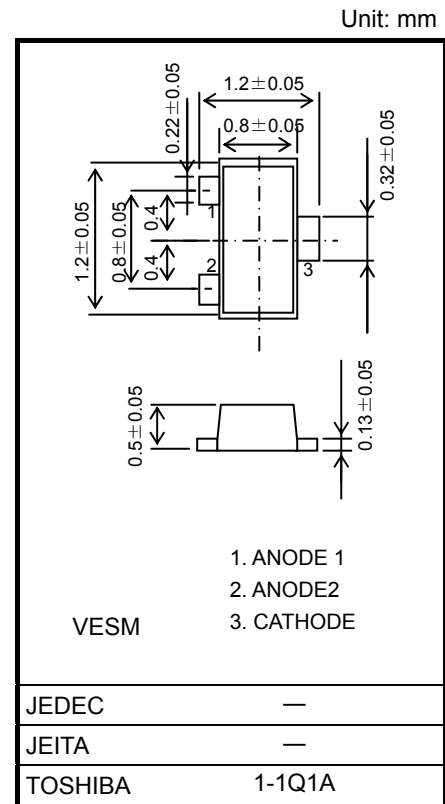
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	300 *	mA
Average forward current	I_O	100 *	mA
Surge current (10 ms)	I_{FSM}	2 *	A
Power dissipation	P	150 **	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 to 150	$^\circ\text{C}$

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.

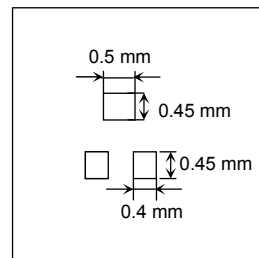
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

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

**: Mounted on an FR4 board (25.4 mm \times 25.4 mm \times 1.6 mm)



Weight: 1.5 mg (typ.)

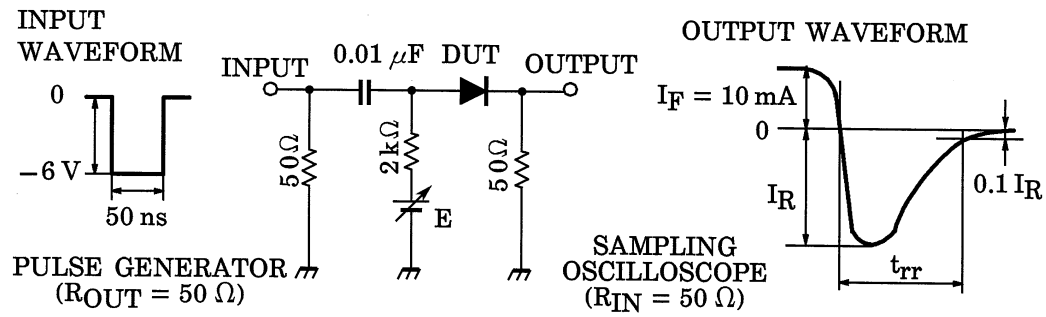


Electrical Characteristics ($T_a = 25^\circ\text{C}$)

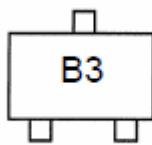
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F(1)$	$I_F = 1\text{ mA}$	—	0.60	—	V
	$V_F(2)$	$I_F = 10\text{ mA}$	—	0.72	—	
	$V_F(3)$	$I_F = 100\text{ mA}$	—	0.90	1.2	
Reverse current	$I_R(1)$	$V_R = 30\text{ V}$	—	—	0.1	μA
	$I_R(2)$	$V_R = 80\text{ V}$	—	—	0.5	
Total capacitance	C_T	$V_R = 0\text{ V}, f = 1\text{ MHz}$	—	0.9	—	pF
Reverse recovery time	t_{rr}	$I_F = 10\text{ mA}$ (Fig. 1)	—	1.6	4.0	ns

Start of commercial production
2004-10

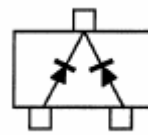
Fig. 1 Reverse Recovery Time (t_{rr}) Test Circuit

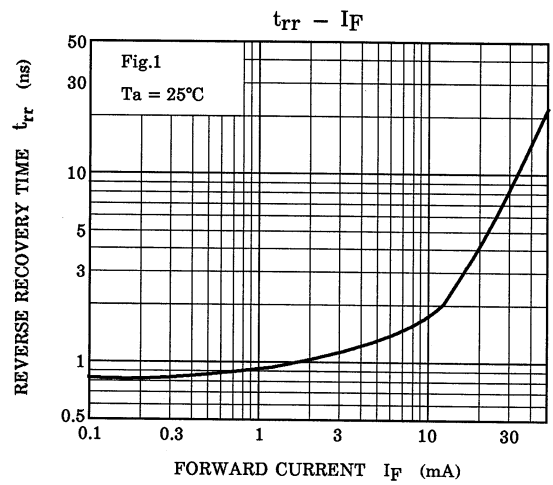
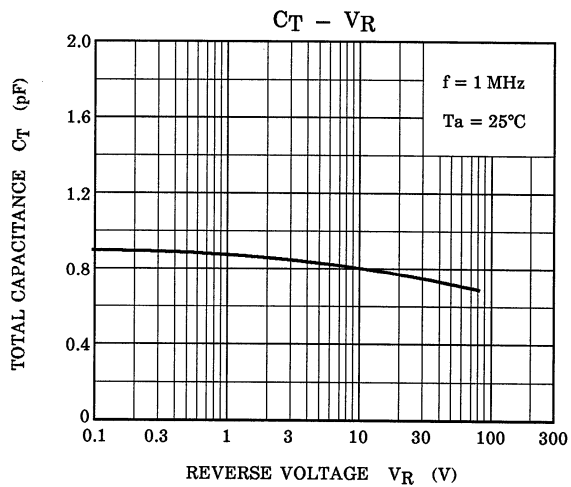
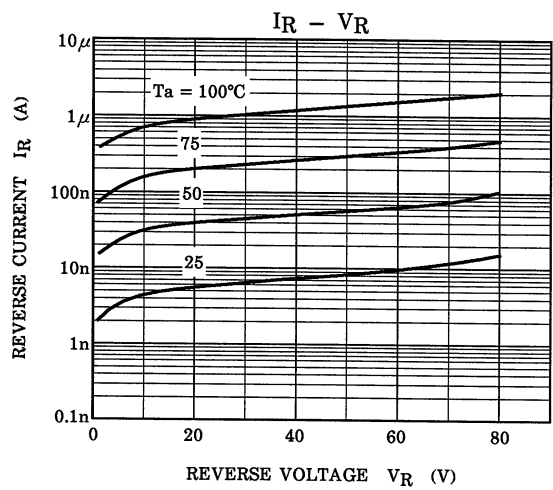
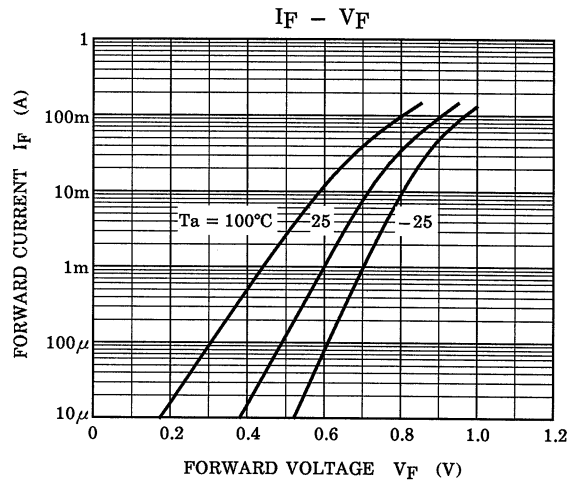


Marking



Equivalent Circuit (Top View)





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