TOSHIBA Diode Silicon Epitaxial Planar Type

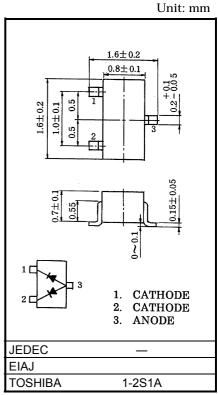
1SS360

Ultra High Speed Switching Application

- Small package
- Low forward voltage $: V_F = 0.92V (typ.)$
- Fast reverse recovery time: t_{rr} = 1.6ns (typ.)
- Small total capacitance $: C_T = 2.2 pF$ (typ.)

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	Ι _Ο	100 *	mA				
Surge current (10ms)	I _{FSM}	2 *	А				
Power dissipation	Р	100	mW				
Junction temperature	Тј	125	°C				
Storage temperature	T _{stg}	-55~125	°C				
* Unit rating. Total rating = unit rating × 1.5							



Weight: 2.4mg

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	-	I _F = 1mA	_	0.61	-		
	V _{F (2)}	_	I _F = 10mA	_	0.74	_	V	
	V _{F (3)}	_	I _F = 100mA	_	0.92	1.20		
Reverse current	I _{R (1)}	-	V _R = 30V	_	_	0.1		
	I _{R (2)}	_	V _R = 80V	_	—	0.5	μA	
Total capacitance	CT	_	V _R = 0, f = 1MH _z	_	2.2	4.0	pF	
Reverse recovery time	t _{rr}	_	I _F = 10mA, Fig.1		1.6	4.0	ns	

Marking



TOSHIBA

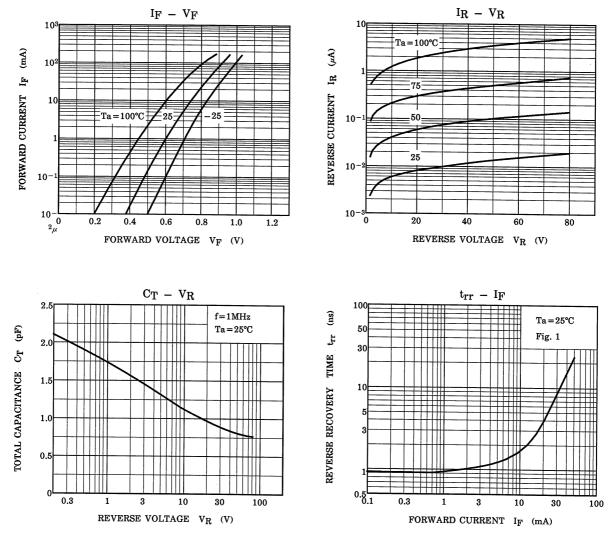
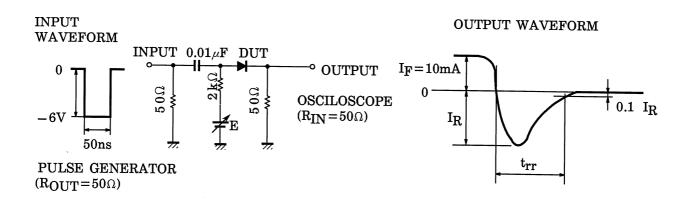


Fig.1 Reverse Recovery Time (trr) Test Circuit



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