TOSHIBA Diode Silicon Epitaxial Planar Type

1SS360F

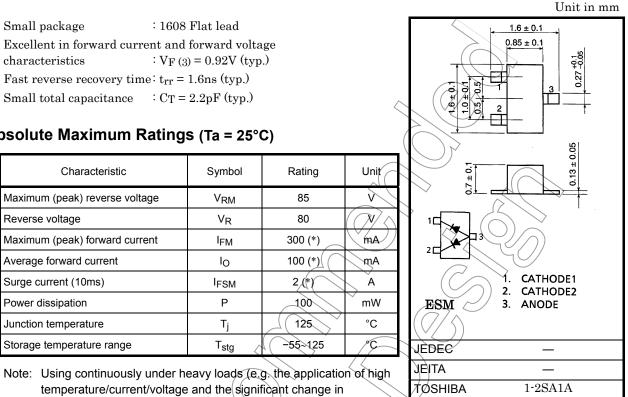
Ultra High Speed Switching Applications

- Small package : 1608 Flat lead
- Excellent in forward current and forward voltage characteristics $: V_{F(3)} = 0.92V (typ.)$
- Fast reverse recovery time: $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance $: C_T = 2.2 pF$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	$(N \land$
Maximum (peak) forward current	I _{FM}	300 (*)	mA
Average forward current	Ι _Ο	100 (*)	mA
Surge current (10ms)	I _{FSM}	2 (*)	Â
Power dissipation	Р	100	[∨] mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C

temperature/current/voltage and the significant change in



temperature, etc.) may cause this product to decrease in the Weigh: 2.3 mg (typ.)

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).

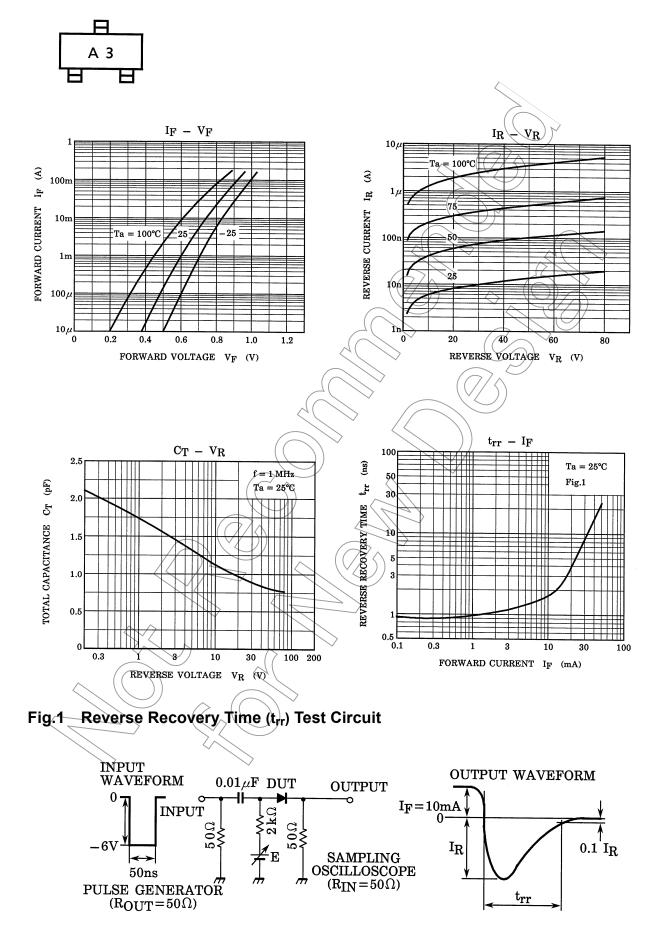
Unit rating. Total rating = unit rating $\times 1.5$ (*)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
\wedge (())	VF (1)	_	I _F = 1mA	_	0.61	—	
Forward voltage	VF (2)	-	I _F = 10mA	-	0.74	-	V
	VE (3)	_	I _F = 100mA	_	0.92	1.20	
Reverse current	I _{R (1)}	_	V _R = 30V	_	—	0.1	μA
Reverse current	∕ 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

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Marking



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