TOSHIBA Diode Silicon Epitaxial Planar Type

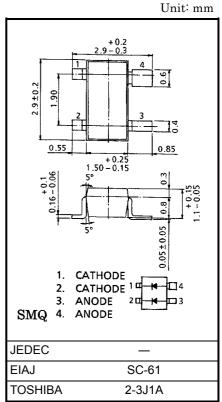
1SS306

High Voltage, High Speed Switching Applications

- Low forward voltage : $V_F (2) = 0.90V (typ.)$
- Fast reverse recovery time: t_{rr} = 30ns (max)
- Small total capacitance $: C_T = 1.5 pF (typ.)$
- Small package : SC-61

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V _{RM}	250	V
Reverse voltage	V _R	200	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	150	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55~125	°C



*: Unit rating. Total rating = unit rating × 1.5

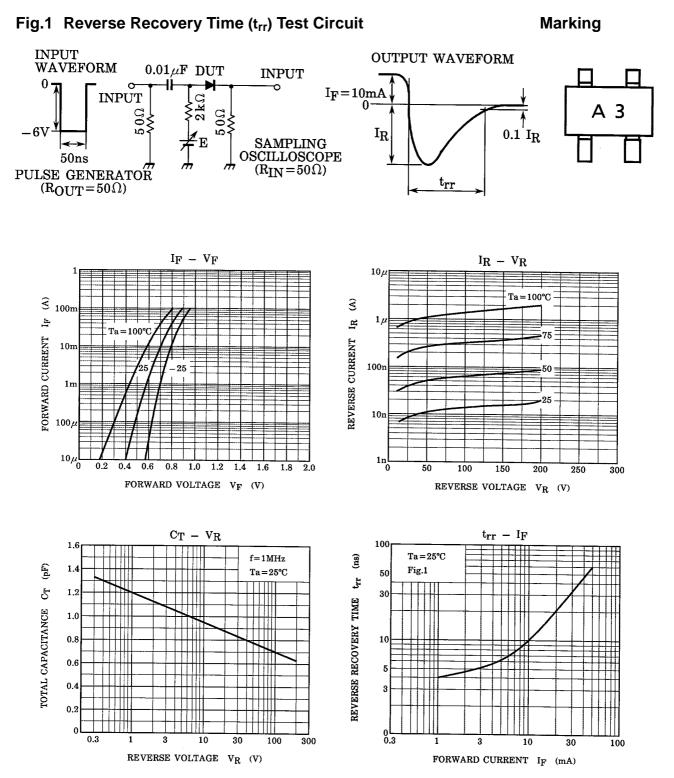
Electrical Characteristics (Ta = 25°C)

Weight: 0.013g

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 10mA		0.72	1.0	.,
	V _{F (2)}		I _F = 100mA	-	0.9	1.2	V
Reverse current	I _{R (1)}	_	V _R = 50V	_	_	0.1	_
	I _{R (2)}	_	V _R = 200V	_	_	1.0	μA
Total capacitance	CT	_	V _R = 0, f = 1MHz	_	1.5	3.0	pF
Reverse recovery time	t _{rr}	_	I _F = 10mA Fig.1	_	30	60	ns

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