Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

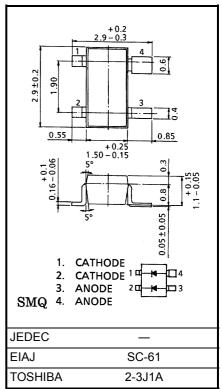
1SS306

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



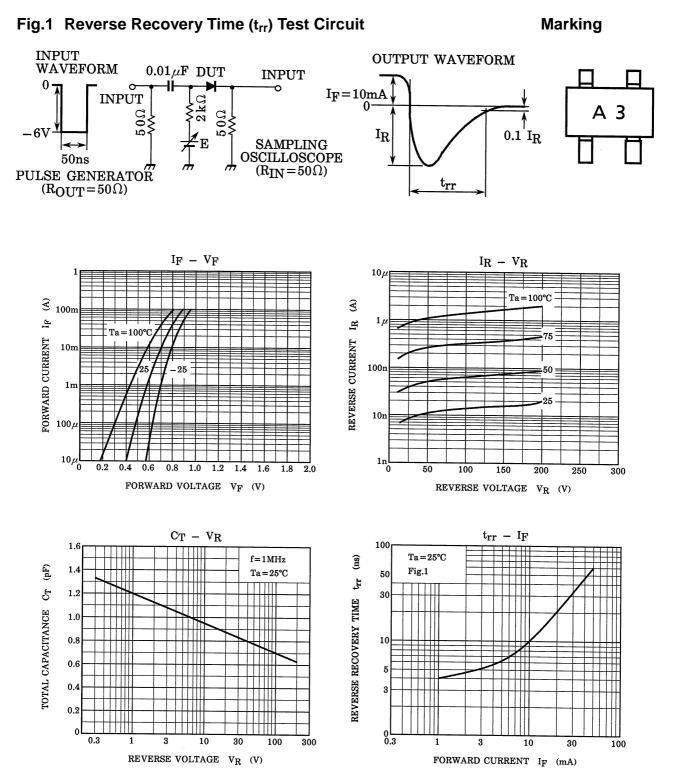
*: Unit rating. Total rating = unit rating × 1.5

Electrical Characteristics (Ta = 25°C)

Test Characteristic Symbol **Test Condition** Min Тур. Max Unit Circuit $I_F = 10 mA$ 0.72 1.0 V_{F (1)} _ _ Forward voltage V I_F = 100mA 0.9 1.2 V_{F (2)} _ _ I_{R (1)} V_R = 50V ____ 0.1 Reverse current μA V_R = 200V _ 1.0 _ ____ I_{R (2)} Total capacitance V_R = 0, f = 1MHz C_{T} 1.5 3.0 pF Reverse recovery time $I_F = 10mA$ Fig.1 30 60 t_{rr} ns

Weight: 0.013g

TOSHIBA



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