TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

155300

ULTRA HIGH SPEED SWITHING APPLICATION.

• Small Package : SC-70

• Low Forward Voltage : $V_{F(3)} = 0.92V$ (Typ.)

• Fast Reverse Recovery Time: t_{rr}=1.6ns (Typ.)

• Small Total Capacitance : C_T=2.2pF (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

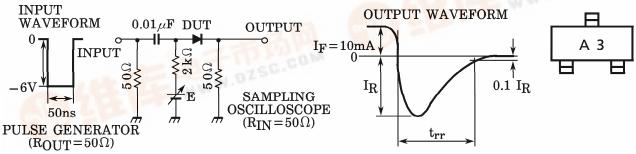
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_{R}	80	V
Maximum (Peak) Forward Current	I_{FM}	300 (*)	mA
Average Forward Current	IO	100 (*)	mA
Surge Current (10ms)	IFSM	2 (*)	Α
Power Dissipation	P.C.Co	100	mW
Junction Temperature	T_{j}	125	°C
Storage Temperature	$\mathrm{T_{stg}}$	-55~125	$^{\circ}\mathrm{C}$

(*) Unit Rating. Total Rating=Unit Rating×1.5

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

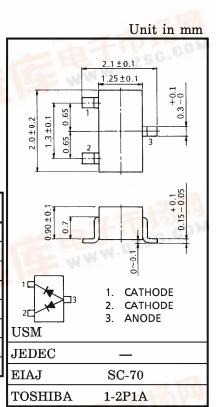
ELECTRICAL CHARACTERISTICS (Ta = 25 C)		gg		475V		
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _{F (1)}	I _F =1mA	_	0.61	_	V
	V _{F (2)}	IF=10mA		0.74	—	
	V _F (3)	IF=100mA		0.92	1.20	
Reverse Current	I _{R (1)}	$V_R = 30V$		_	0.1	μ A
	I _{R (2)}	$V_R = 80V$		_	0.5	
Total Capacitance	C_{T}	$V_R=0$, f=1MHz	-	2.2	4.0	pF
Reverse Recovery Time	t _{rr}	$I_{ m F} = 10 { m mA}, { m Fig.1}$	-	1.6	4.0	ns
						10.00

Fig.1 REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT



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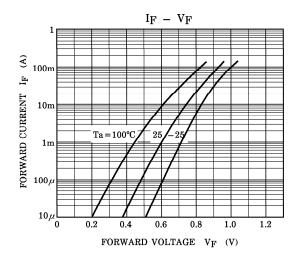
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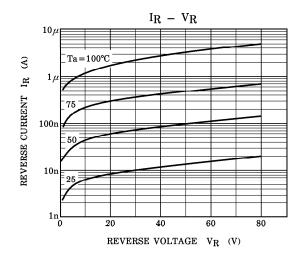


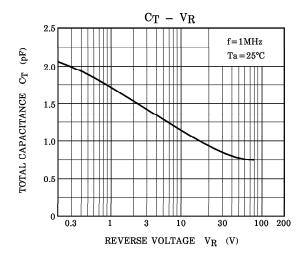
Weight: 0.006g

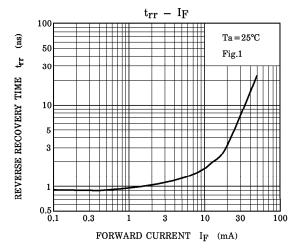
MARKING

TOSHIBA 1SS300









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