

ULTRA HIGH SPEED SWITCHING APPLICATION.

FEATURES

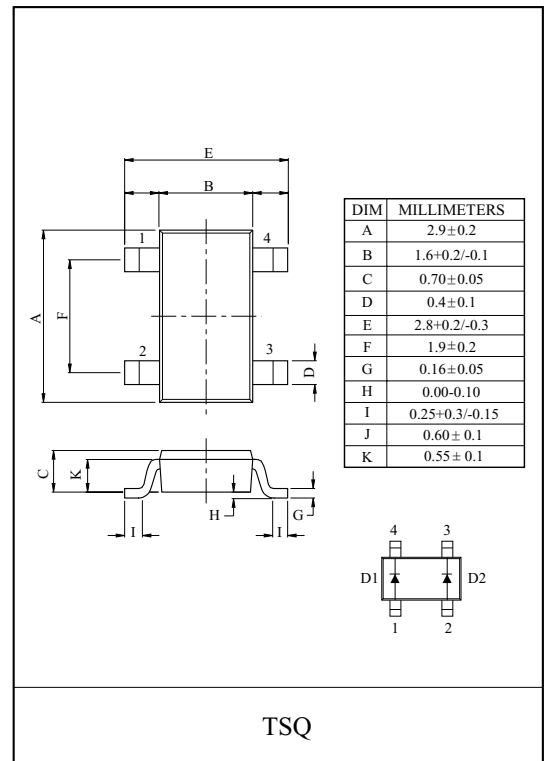
- Low Forward Voltage.
- Fast Reverse Recovery Time.
- Small Total Capacitance.

MAXIMUM RATING (Ta=25)

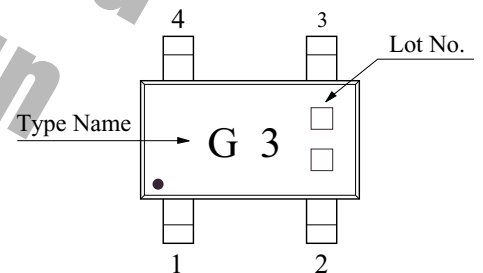
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}^*	300	mA
Average Forward Current	I_O^*	100	mA
Surge Current (10ms)	I_{FSM}^*	2	A
Power Dissipation	P_D^{**}	900	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

* : Unit Rating. (Total Rating=Unit Rating \times 1.5)

** : Total rating. Package mounted on a ceramic board (600mm² \times 0.8mm)



Marking



ELECTRICAL CHARACTERISTICS (Ta=25)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	$I_F=1mA$	-	0.60	-	V
	$V_{F(2)}$	$I_F=10mA$	-	0.72	-	
	$V_{F(3)}$	$I_F=100mA$	-	0.90	1.20	
Reverse Current	I_R	$V_R=80V$	-	-	0.5	μA
Total Capacitance	C_T	$V_R=0, f=1MHz$	-	0.9	3.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA$	-	1.6	4.0	nS

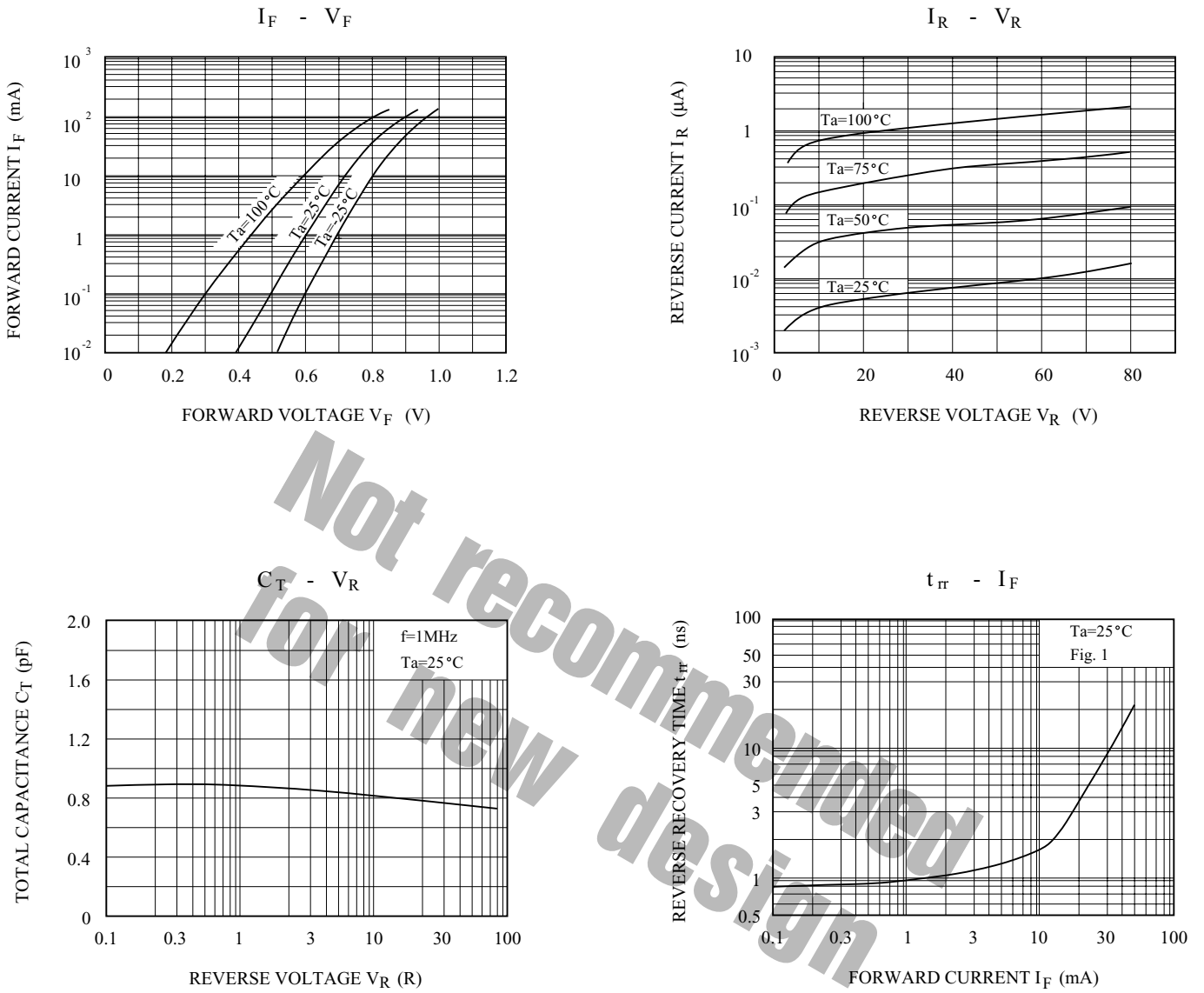


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT

