

ULTRA HIGH SPEED SWITCHING APPLICATION

FEATURES

- Small Package : SOT-23.
- Low Forward Voltage : $V_F=0.9V$ (Typ.).
- Fast Reverse Recovery Time : $t_{rr}=1.6ns$ (Typ.).
- Small Total Capacitance : $C_T=0.9pF$ (Typ.).
- Suffix U : Qualified to AEC-Q101.

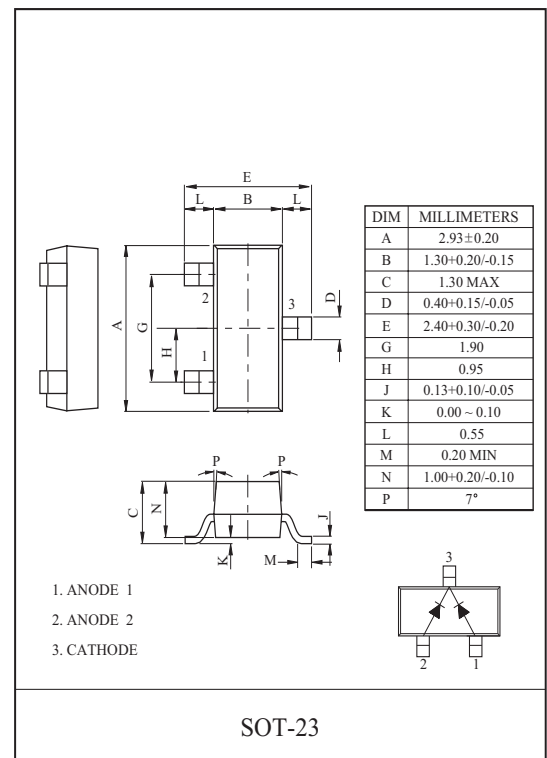
ex) BAV70-RTK/HU

MAXIMUM RATING (Ta=25°C)

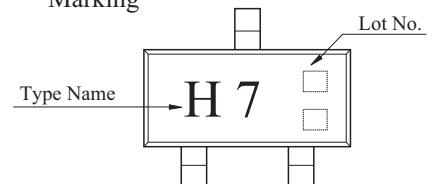
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Continuous Forward Current	I_F	250	mA
Surge Current (10ms)	I_{FSM}	2	A
Power Dissipation	P_D	225*	mW
		300**	
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

* Note1 : Package Mounted On FR-5 Board (25.4×19.05×1.57mm)

** Note2 : Package Mounted On 99.5% Alumina (10×8×0.6mm)



Marking



ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	-	
	$V_{F(3)}$	$I_F=150mA$	-	-	1.25	
Reverse Current	I_R	$V_R=80V$	-	-	0.5	μA
Total Capacitance	C_T	$V_R=0, f=1MHz$	-	-	3.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA$	-	-	4.0	nS

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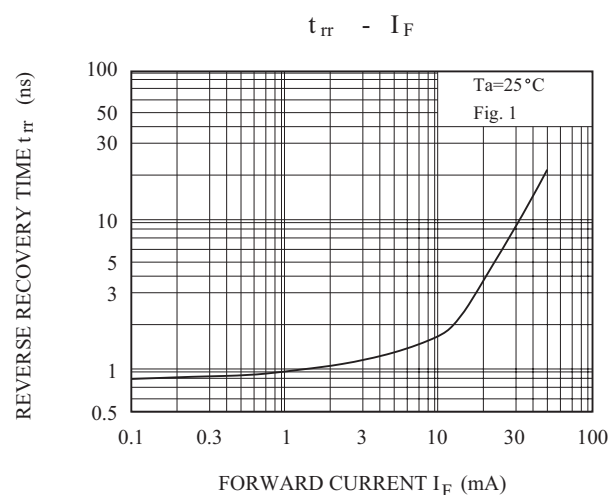
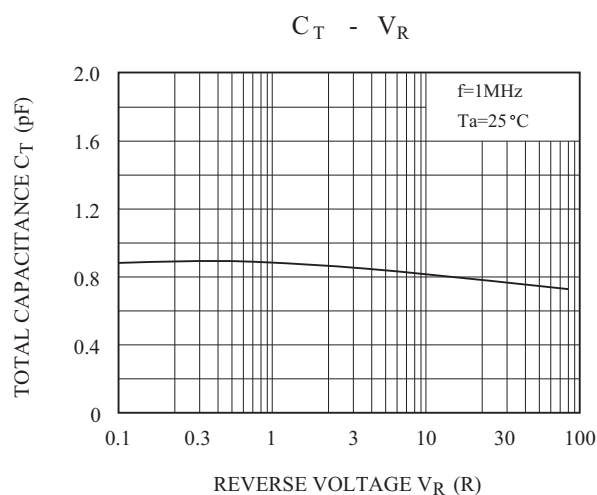
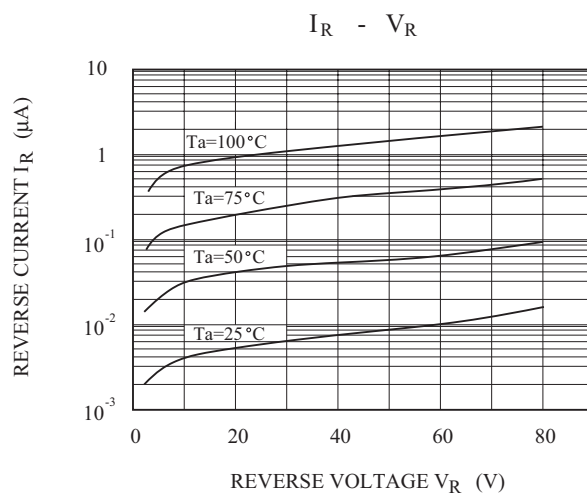
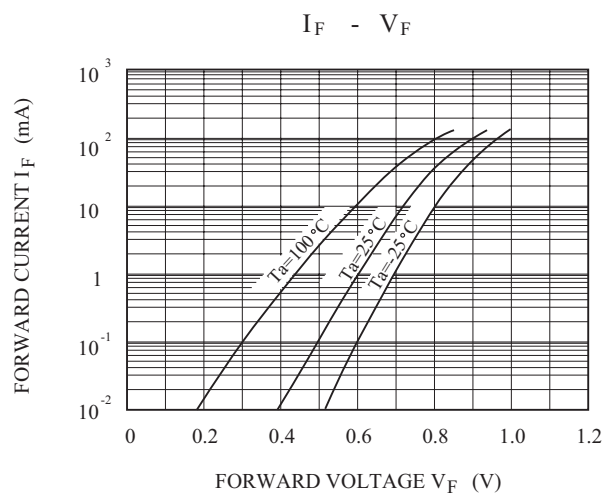
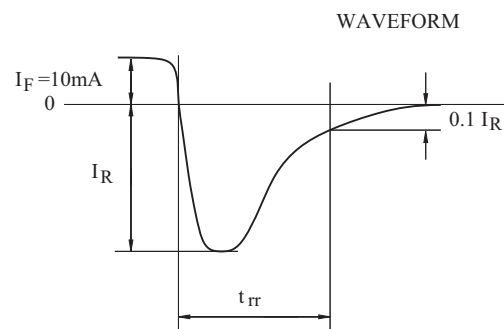
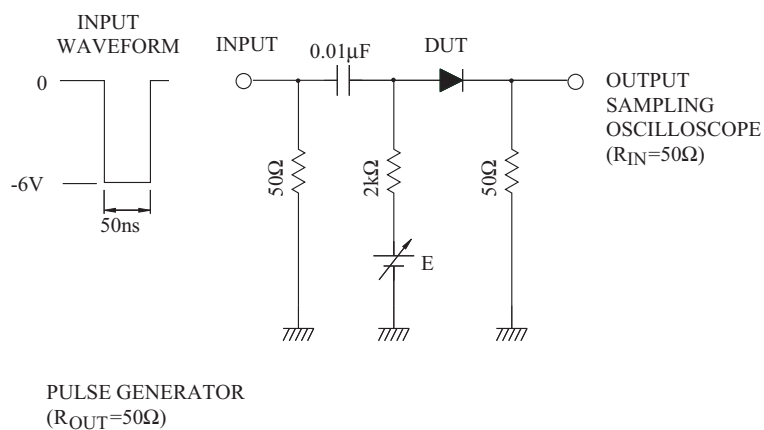


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



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