

High Voltage Switching.

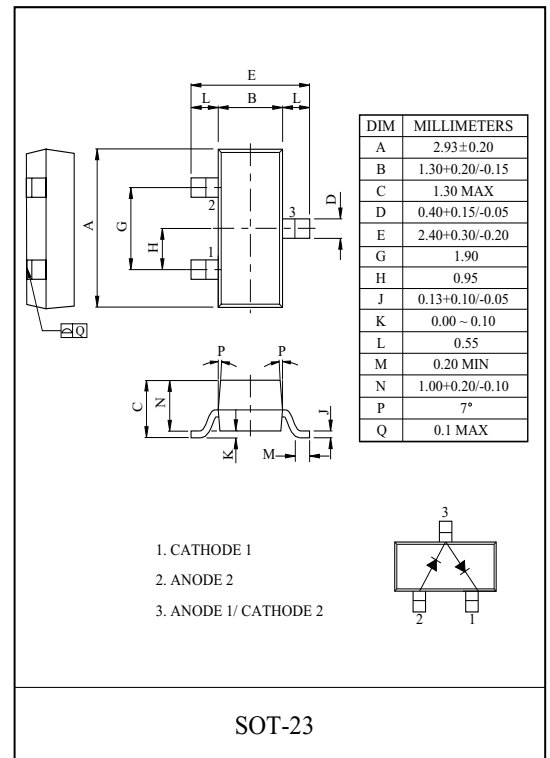
### FEATURES

- Low Leakage Current.
- Repetitive Peak Reverse Voltage :  $V_{RRM}$  250V.
- Low Capacitance :  $C_T$  2pF.

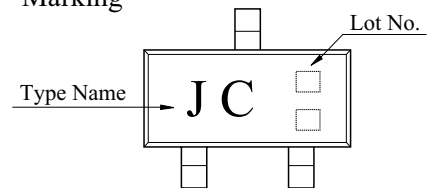
### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage		$V_{RM}$	250	V
Reverse Voltage		$V_R$	200	V
Maximum (Peak) Forward Current		$I_{FM}$	625	mA
Forward Current	Single diode loaded.	$I_F$	225	mA
	Double diode loaded.		125	
Surge Current (Square wave)	t = 1 $\mu$ s	$I_{FSM}$	9	A
	t = 100 $\mu$ s		3	A
	t = 10ms		1.7	A
Power Dissipation		$P_D$	250*	mW
Junction Temperature		$T_j$	150	
Storage Temperature Range		$T_{stg}$	-55 150	

Note : \* Device mounted on a FR4 Printed-Circuit Board (PCB)



### Marking



### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=100mA$	-	-	1.0	V
		$I_F=200mA$	-	-	1.25	
Reverse Current	$I_R$	$V_R=200V$	-	-	0.1	$\mu$ A
		$V_R=200V, T_j=150$	-	-	100	
Total Capacitance	$C_T$	$V_R=0V, f=1MHz$	-	-	2	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA, I_R=10mA, I_{RM}=1mA$	-	-	50	ns

# BAV23S

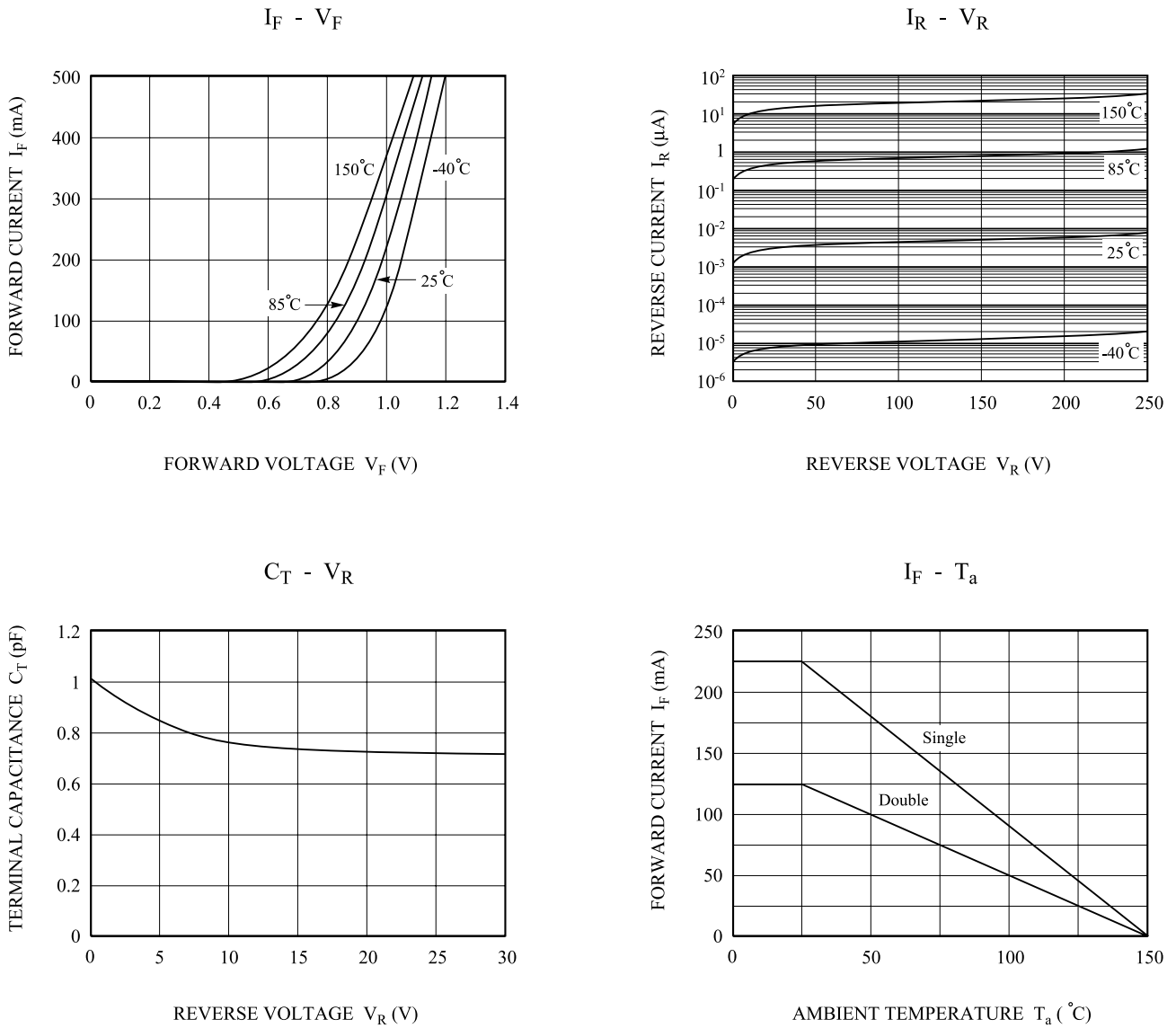


Fig. 1. REVERSE RECOVERY TIME( $t_{rr}$ ) TEST CIRCUIT

