

GENERAL PURPOSE APPLICATION.
HIGH VOLTAGE APPLICATION.

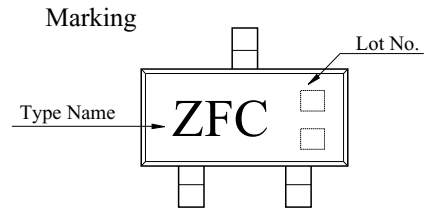
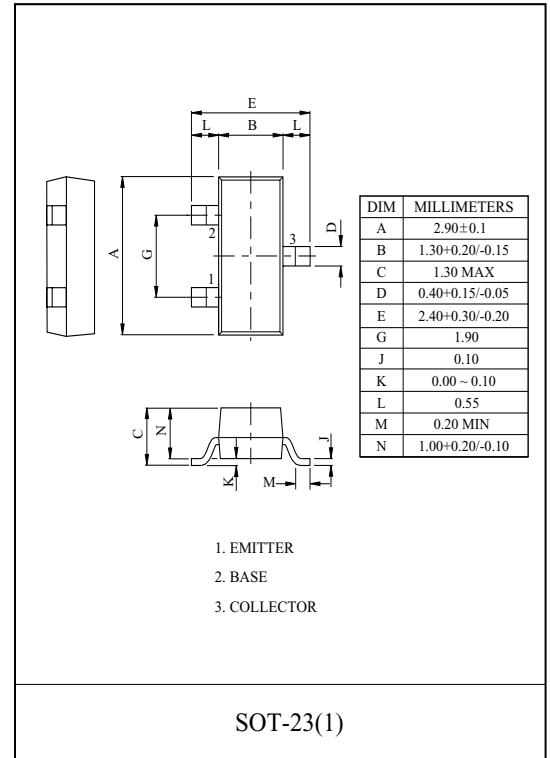
FEATURES

- High Collector Breakdown Voltage
: $V_{CBO}=180V$, $V_{CEO}=160V$
- Low Leakage Current.
: $I_{CBO}=50nA(\text{Max.})$ $V_{CB}=120V$
- Low Saturation Voltage
: $V_{CE(\text{sat})}=0.2V(\text{Max.})$ $I_C=50mA$, $I_B=5mA$

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	180	V
Collector-Emitter Voltage	V_{CEO}	160	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	600	mA
Base Current	I_B	100	mA
Collector Power Dissipation	P_C^*	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Note : * Package Mounted On 99.5% Alumina $10 \times 8 \times 0.6mm$)



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=120V$, $I_E=0$	-	-	50	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4V$, $I_C=0$	-	-	50	nA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=0.1mA$, $I_E=0$	180	-	-	V
Collector-Emitter Breakdown Voltage *	$V_{(BR)CEO}$	$I_C=1mA$, $I_B=0$	160	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=0.1mA$, $I_C=0$	5	-	-	V
DC Current Gain *	h_{FE}	$V_{CE}=5V$, $I_C=10mA$	150	-	250	
Collector-Emitter Saturation Voltage *	$V_{CE(\text{sat})}$	$I_C=50mA$, $I_B=5mA$	-	-	0.5	V
Base-Emitter Saturation Voltage *	$V_{BE(\text{sat})}$	$I_C=50mA$, $I_B=5mA$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE}=5V$, $I_C=10mA$, $f=30MHz$	100	-	300	MHz

* Pulse Test : Pulse Width 300 μs , Duty Cycle 2%.