

GENERAL PURPOSE APPLICATION.
HIGH VOLTAGE APPLICATION.

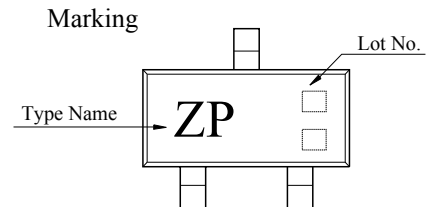
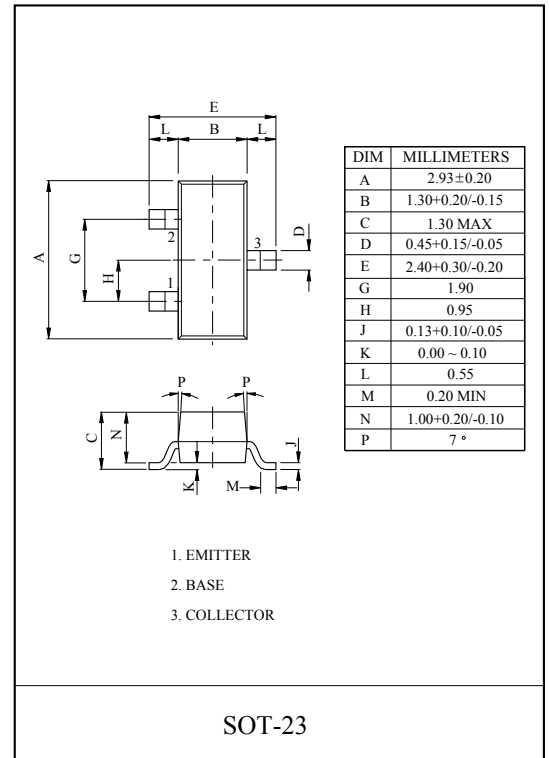
FEATURES

- High Collector Breakdwn Voltage
: $V_{CBO}=160V$, $V_{CEO}=140V$
- Low Leakage Current.
: $I_{CBO}=100nA(Max.)$ $V_{CB}=100V$
- Low Saturation Voltage
: $V_{CE(sat)}=0.25V(Max.)$ $I_C=50mA$, $I_B=5mA$
- Low Noise : $NF=10dB (Max.)$

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	140	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	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

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



2N5550S

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=100V, I_E=0$	-	-	100	nA
		$V_{CB}=100V, I_E=0, T_a=100^\circ C$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4V, I_C=0$	-	-	50	nA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=0.1mA, I_E=0$	160	-	-	V
Collector-Emitter Breakdown Voltage *	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	140	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	6	-	-	V
DC Current Gain *	$h_{FE(1)}$	$V_{CE}=5V, I_C=1mA$	60	-	-	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=10mA$	60	-	250	
	$h_{FE(3)}$	$V_{CE}=5V, I_C=50mA$	20	-	-	
Collector-Emitter Saturation Voltage *	$V_{CE(sat)1}$	$I_C=10mA, I_B=1mA$	-	-	0.15	V
	$V_{CE(sat)2}$	$I_C=50mA, I_B=5mA$	-	-	0.25	
Base-Emitter Saturation Voltage *	$V_{BE(sat)1}$	$I_C=10mA, I_B=1mA$	-	-	1.0	V
	$V_{BE(sat)2}$	$I_C=50mA, I_B=5mA$	-	-	1.2	
Transition Frequency	f_T	$V_{CE}=10V, I_C=10mA, f=100MHz$	100	-	300	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	-	6	pF
Input Capacitance	C_{ib}	$V_{BE}=0.5V, I_C=0, f=1MHz$	-	-	30	pF
Small-Signal Current Gain	h_{fe}	$V_{CE}=10V, I_C=1mA, f=1kHz$	50	-	200	
Noise Figure	NF	$V_{CE}=5V, I_C=250\mu A$ $R_g=1k\Omega, f=10Hz \sim 15.7kHz$	-	-	10	dB

* Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.



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