

GENERAL PURPOSE APPLICATION.
HIGH VOLTAGE APPLICATION.

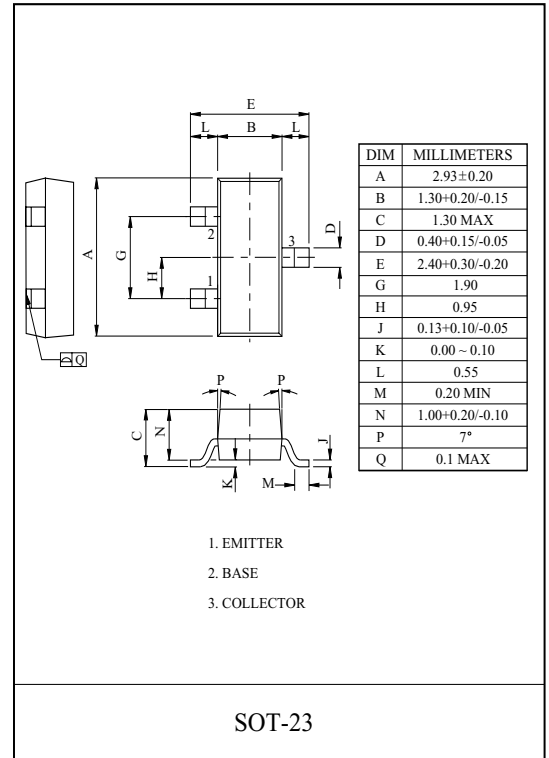
FEATURES

- High Collector Breakdown Voltage
: $V_{CBO}=180V$, $V_{CEO}=160V$
- Low Leakage Current.
: $I_{CBO}=50nA(\text{Max.})$ $V_{CB}=120V$
- Low Saturation Voltage
: $V_{CE(\text{sat})}=0.2V(\text{Max.})$ $I_C=50mA$, $I_B=5mA$
- Low Noise : $NF=8dB$ (Max.)

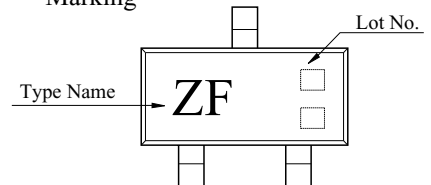
MAXIMUM RATING (Ta=25 °C)

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 $10 \times 8 \times 0.6mm$)



Marking



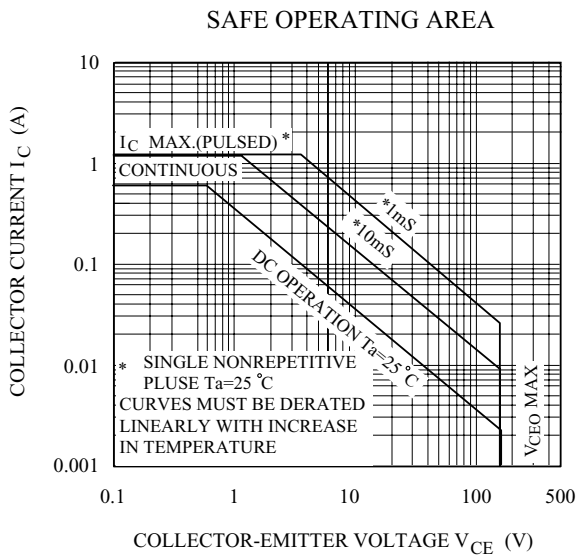
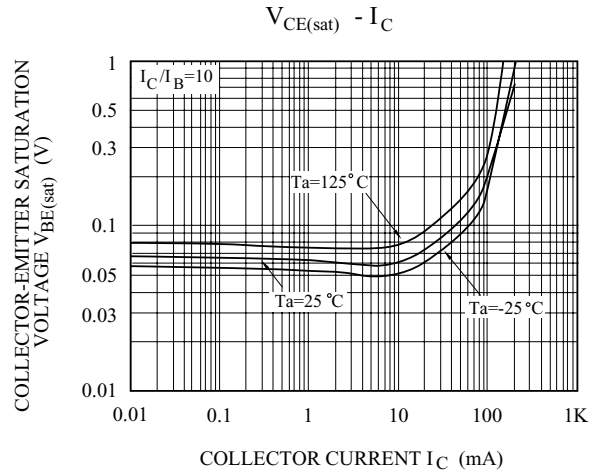
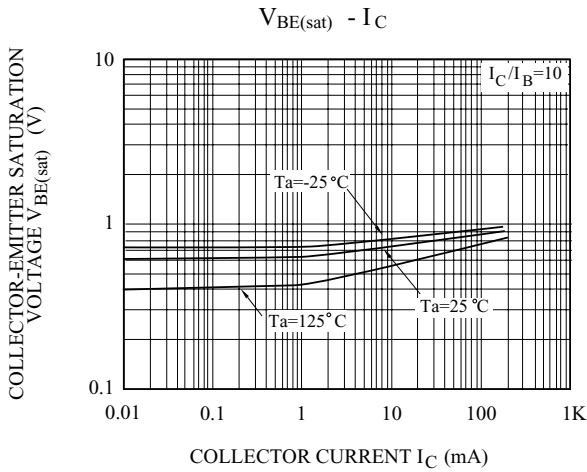
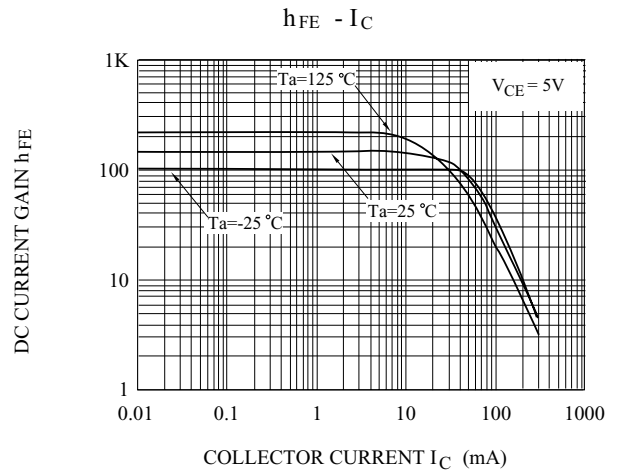
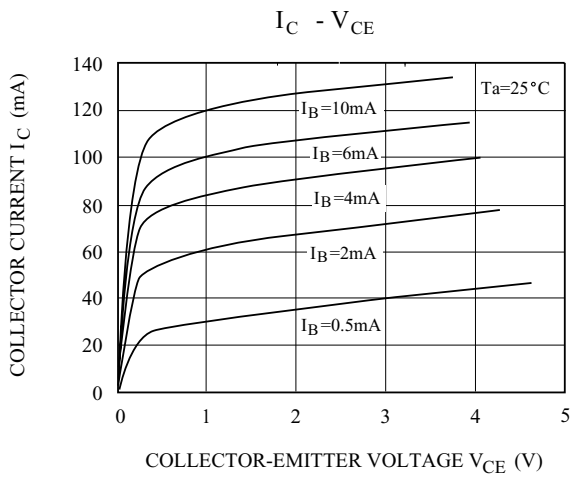
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ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =120V, I _E =0	-	-	50	nA
		V _{CB} =120V, I _E =0, Ta=100	-	-	50	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	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 =10μA, I _C =0	6	-	-	V
DC Current Gain *	h _{FE} (1)	V _{CE} =5V, I _C =1mA	80	-	-	-
	h _{FE} (2)	V _{CE} =5V, I _C =10mA	80	-	250	
	h _{FE} (3)	V _{CE} =5V, I _C =50mA	30	-	-	
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	-	-	0.2	
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	-	-	1.0	
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	-	-	20	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 =250μA R _g =1kΩ, f=10Hz-15.7kHz	-	-	8	dB

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

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