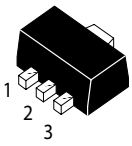
WEITRON

2SB1260

PNP Plastic-Encapsulate Transistor

Lead(Pb)-Free

SOT-89



1. BASE
2. COLLECTOR
3. EMITTER

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	VCEO	-80	Vdc
Collector-Base Voltage	VCBO	-80	Vdc
Emitter-Base Voltage	VEBO	-5.0	Vdc
Collector Current	I_C	1.0	Adc(DC)
	I_{CP}	2.0	Adc (Pulse)
Collector Power Dissipation	P_C	0.5	W
Junction Temperature, Storage Temperature	T_j, Tstg	150, -55 to +150	℃

Device Marking

2SB1260=ZL

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage (I_C= -1.0 mAdc, I_B=0)	$V_{(BR)CEO}$	-80	-	Vdc
Collector-Base Breakdown Voltage (I_C= -50 μAdc, I_E=0)	$V_{(BR)CBO}$	-80	-	Vdc
Emitter-Base Breakdown Voltage (I_E= -50 μAdc, I_C=0)	$V_{(BR)EBO}$	-5.0	-	Vdc
Collector Cutoff Current (V_{CB}= -60 Vdc, I_E=0)	I_{CBO}	-	-1	uAdc
Emitter Cutoff Current (V_{EB}=-4.0 Vdc, I_C=0)	I_{EBO}	-	-1	uAdc

1.FR-5=1.0 x 0.75 x 0.062 in.

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted) (Countinued)

Characteristics	Symbol	Min	Typ	Max	Unit

ON CHARACTERISTICS

DC Current Gain (I_C=-0.1 Adc, V_{CE}=-3.0 Vdc)	h_{FE}	82	-	390	-
Collector-Emitter Saturation Voltage (I_C=-500 mAdc, I_B=-50mAdc)	$V_{CE(sat)}$	-	-	-0.4	Vdc
Transition Frequency (I_C=-50 mAdc, V_{CE}=-5.0 Vdc,f=30 MHz)	f_T	80	-	-	MHz

CLASSIFICATION OF h_{FE}

Item	P	Q	R
Range	82-180	120-270	180-390

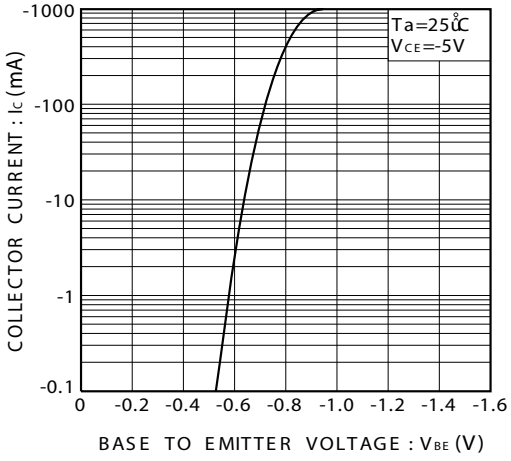


FIG.1 Grounded Emitter Propagation Characteristics

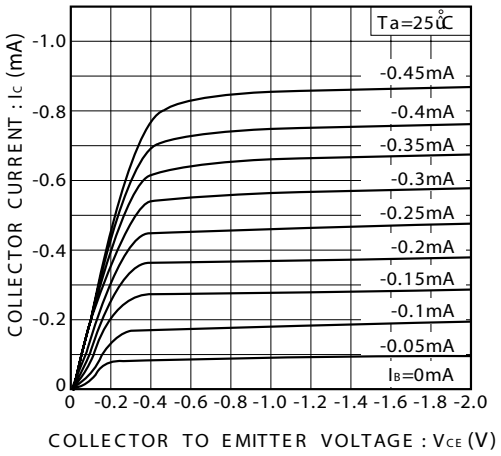


FIG.2 Grounded Emitter Output Characteristics

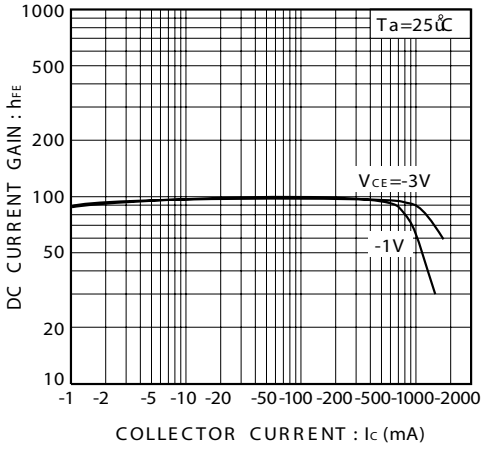


FIG.3 DC Current Gain vs. Collector Current

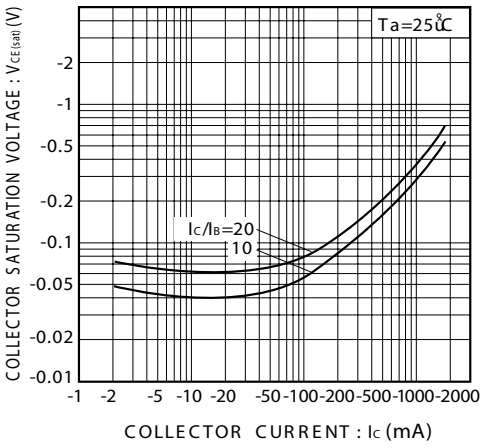


FIG.4 Collector-Emitter Saturation Voltage vs. Collector Current

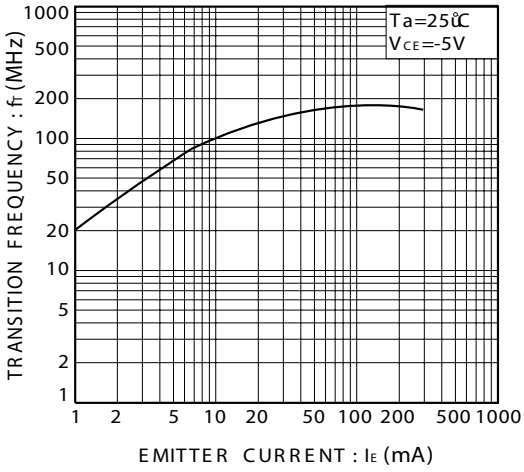


FIG.5 Gain Bandwidth Product vs. Emitter Current

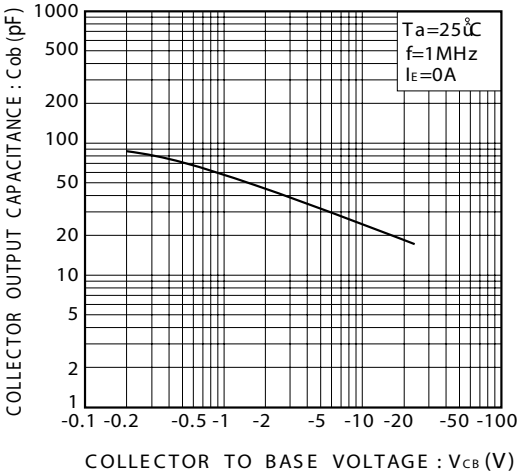


FIG.6 Collector Output Capacitance vs. Collector-Base Voltage

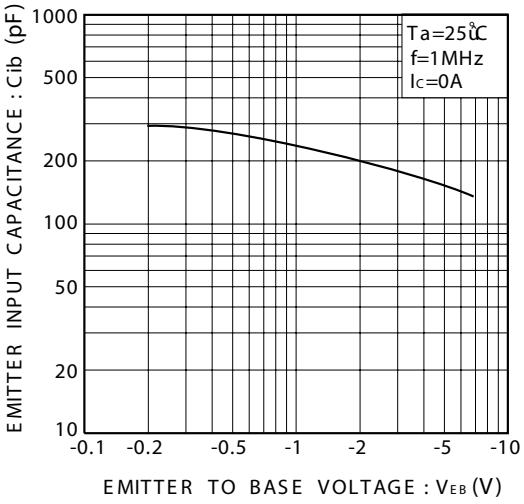


FIG. 7 Emitter Input Capacitance vs. Emitter-Base Voltage

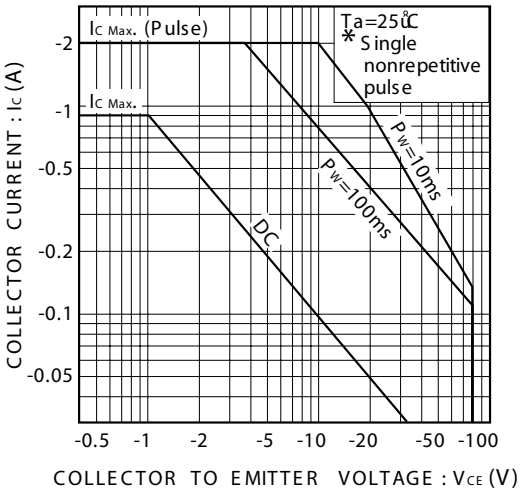
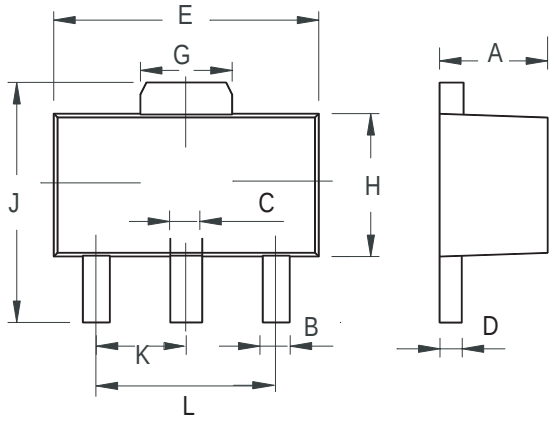


FIG. 8 Safe Operating Area

SOT-89 Outline Dimensions

unit:mm



SOT-89		
Dim	**Min**	**Max**
A	1.400	1.600
B	0.320	0.520
C	0.360	0.560
D	0.350	0.440
E	4.400	4.600
G	1.400	1.800
H	2.300	2.600
J	3.940	4.250
K	1.500TYP	
L	2.900	3.100