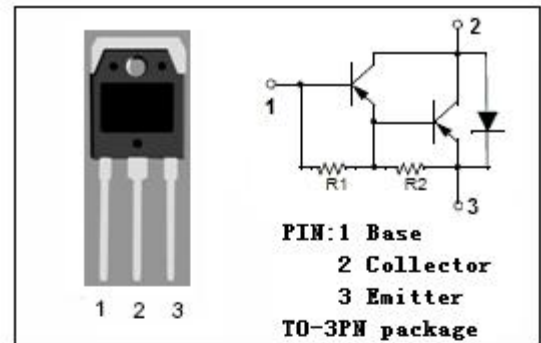


isc Silicon PNP Darlington Power Transistor
2SB897
DESCRIPTION

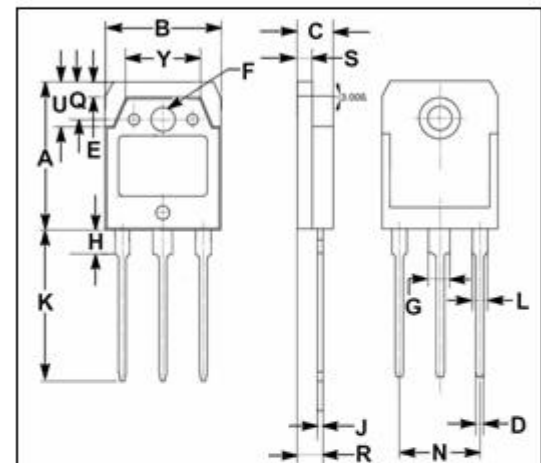
- High DC Current Gain-
: $h_{FE} = 1000(\text{Min}) @ I_C = -10\text{A}$
- Low Collector Saturation Voltage-
: $V_{CE(\text{sat})} = -1.5\text{V}(\text{Max.}) @ I_C = 10\text{A}$
- Complement to Type 2SD1210
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for audio frequency power amplifier and low speed high current switching industrial use.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-10	A
I_{CM}	Collector Current-Peak	-20	A
I_B	Base Current- Continuous	-1.0	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	80	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



DIM	mm	
	MIN	MAX
A	19.60	20.10
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	20.00	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10

isc Silicon PNP Darlington Power Transistor**2SB897****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}, I_B = 0$	-100			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -10\text{A}, I_B = -25\text{mA}$			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -10\text{A}, I_B = -25\text{mA}$			-2.0	V
I_{CBO}	Collector Cutoff current	$V_{CB} = -100\text{V}, I_E = 0$			-10	μA
I_{EBO}	Emitter Cutoff current	$V_{EB} = -8\text{V}, I_C = 0$			-5	mA
h_{FE}	DC Current Gain	$I_C = -10\text{A}; V_{CE} = -2\text{V}$	1000			

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