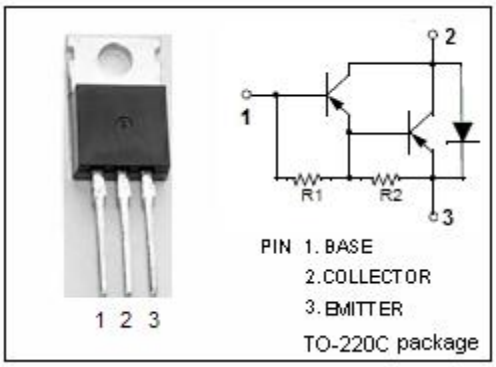
isc Silicon PNP Darlington Power Transistor 2SB881

DESCRIPTION

- High DC Current Gain-
  : h_{FE} = 2000(Min)@ I_C= -3.5A
- Wide Area of Safe Operation
- Low Collector-Emitter Saturation Voltage-
  : $V_{CE(sat)}$ = -1.5V(Max)@ I_C= -3.5A
- Complement to Type 2SD1191
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

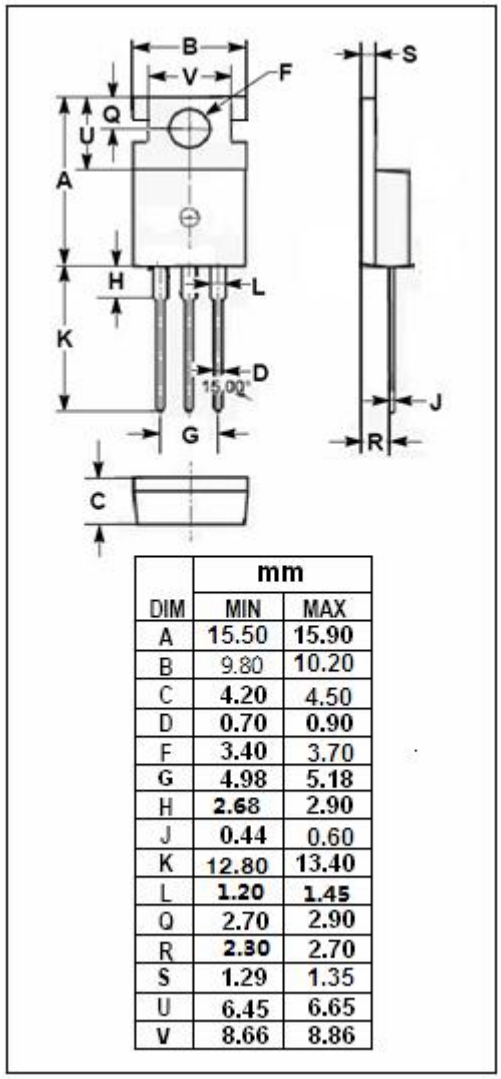


APPLICATIONS

- Designed for motor drivers, printer hammer drivers, relay drivers, voltage regulators applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-70	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-10	A
P_C	Collector Power Dissipation T_C=25℃	35	W
	Collector Power Dissipation T_a=25℃	1.75	
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -30mA, R_{BE}= ∞	-60			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -5mA, I_E= 0	-70			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -3.5A, I_B= -7mA			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -3.5A, I_B= -7mA			-2.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -40V, I_E= 0			-100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-3	mA
h_{FE}	DC Current Gain	I_C= -3.5A; V_{CE}= -2V	2000			