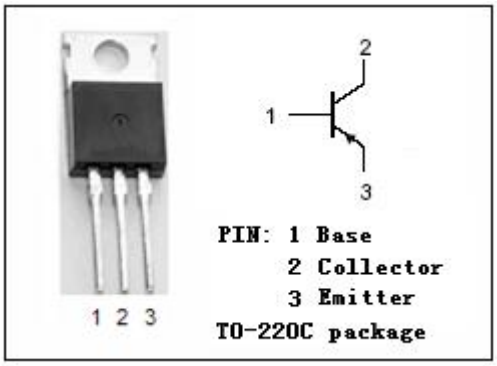
isc Silicon PNP Power Transistor — 2SB867



DESCRIPTION

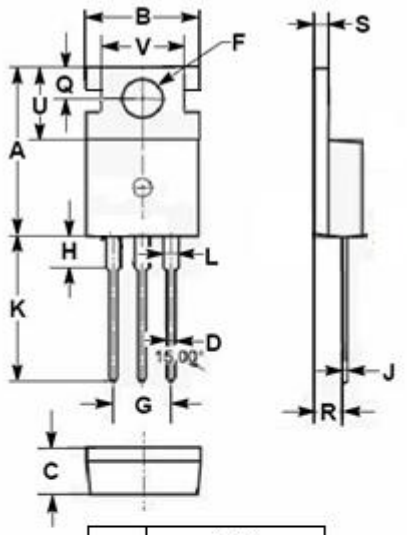
- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -80V(Min)
- Good Linearity of h_{FE}
- Low Collector Saturation Voltage
  : $V_{CE(sat)}$= -0.5V(Max)@I_C= -2A
- Complement to Type 2SD959
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-130	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-6	A
P_C	Collector Power Dissipation @ T_C=25℃	30	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm 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= -10mA; I_B= 0	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -2A; I_B= -0.1A			-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -2A; I_B= -0.1A			-1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -100V; I_E= 0			-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-50	μA
h_{FE-1}	DC Current Gain	I_C= -0.1A; V_{CE}= -2V	45			
h_{FE-2}	DC Current Gain	I_C= -0.5A; V_{CE}= -2V	60		260	

◆ **h_{FE-2} Classifications**

R	Q	P
60-120	90-180	130-260