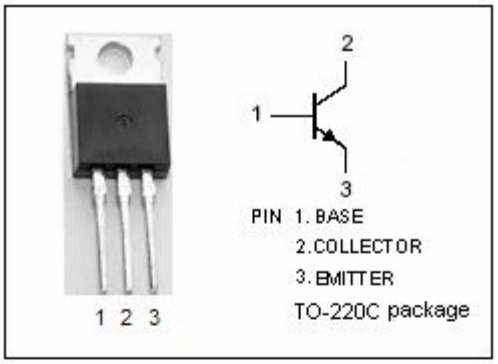
isc Silicon NPN Power Transistor 2N6130



DESCRIPTION

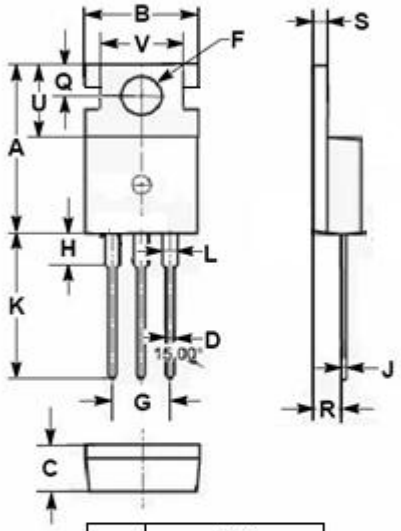
- DC Current Gain-
  : h_{FE} = 20-100@ I_C= 2.5A
- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$ = 60V(Min)
- Complement to Type 2N6133
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in power amplifier and switching circuits applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	7	A
I_B	Base Current	2	A
P_C	Collector Power Dissipation T_C=25℃	50	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃



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	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 30mA; I_B= 0	60		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 7A; I_B= 1.4A		1.4	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 7A; V_{CE}= 4V		3.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 60V; I_E= 0		0.1	mA
I_{CEO}	Collector Cutoff Current	V_{CE}= 60V; I_B= 0		1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C= 0		1.0	mA
h_{FE-1}	DC Current Gain	I_C= 2.5A ; V_{CE}= 4V	20	100	
h_{FE-2}	DC Current Gain	I_C= 7A ; V_{CE}= 4V	5		
f_T	Current-Gain—Bandwidth Product	I_C= 0.5A ; V_{CE}= 4V	2.5		MHz