

Silicon PNP Power Transistor

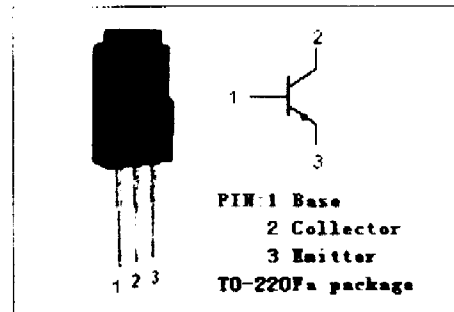
2SB1530

DESCRIPTION

- Collector-Emitter Breakdown Voltage:
 $V_{(BR)CEO} = -150V(\text{Min.})$
- Complement to Type 2SD2337

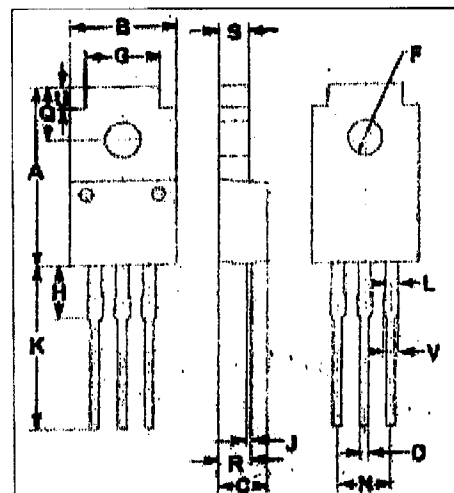
APPLICATIONS

- Designed for low frequency power amplifier color TV vertical deflection output applications.

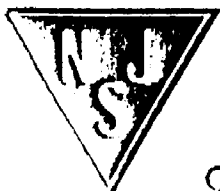


ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EB0}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-5	A
P_C	Collector Power Dissipation	1.5	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-45~150	$^\circ\text{C}$



DIM	mm	
	MIN	MAX
A	16.85	17.15
B	9.54	10.10
C	4.35	4.65
D	0.75	0.90
F	3.20	3.40
G	6.90	7.20
H	3.80	4.20
J	0.45	0.75
K	13.35	13.80
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.55	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50



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Quality Semi-Conductors

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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	$I_C = 10\text{mA}; R_{BE} = \infty$	-150			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -5\text{mA}; I_C = 0$	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -0.5\text{A}; I_B = -50\text{mA}$			-3.0	V
$V_{BF(on)}$	Base-Emitter On Voltage	$I_C = -50\text{mA}; V_{CE} = -4\text{V}$			-1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -120\text{V}; I_E = 0$			-1	μA
h_{FE-1}	DC Current Gain	$I_C = -50\text{mA}; V_{CE} = -4\text{V}$	60		200	
h_{FE-2}	DC Current Gain	$I_C = -0.5\text{A}; V_{CE} = -10\text{V}$	60			

Notes:

◆ h_{FE-1} Classifications

B	C
60-120	100-200

◆ h_{FE-1} Pulse test