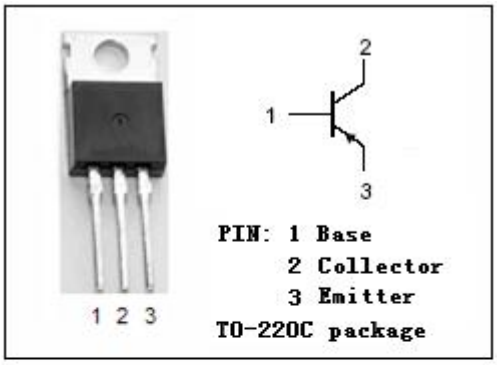
SPTECH Silicon PNP Power Transistor



DESCRIPTION

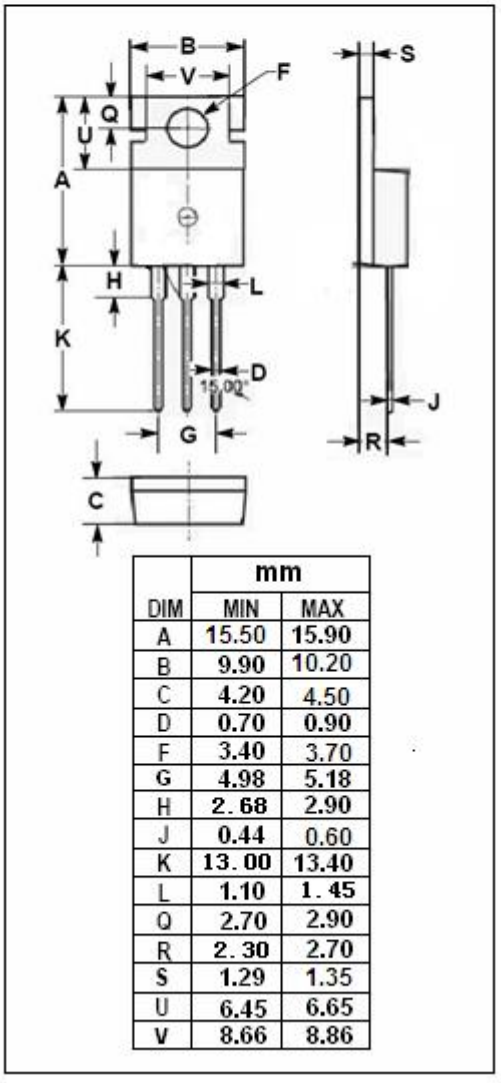
- High Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -150V(Min)
- Wide Area of Safe Operation
- Complement to Type 2SD1138

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-5	A
P_C	Collector Power Dissipation @ T_a=25℃	1.8	W
	Collector Power Dissipation @ T_C=25℃	30	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-45~150	℃



DIM	mm MIN	MAX
A	15.50	15.90
B	9.90	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	13.00	13.40
L	1.10	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

SPTECH Silicon PNP Power Transistor

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -50mA ; R_{BE}= ∞	-150			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -5mA ; I_C= 0	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-3.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -50mA ; V_{CE}= -4V			-1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -120V ; I_E=0			-1	μA
h_{FE-1}	DC Current Gain	I_C= -50mA ; V_{CE}= -4V	60		200	
h_{FE-2}	DC Current Gain	I_C= -500mA ; V_{CE}= -10V	60			
C_{OB}	Output Capacitance	I_E= 0; V_{CB}=-100V;f_{test}= 1.0MHz		30		pF

◆ h_{FE-1} Classifications

B	C
60-120	100-200