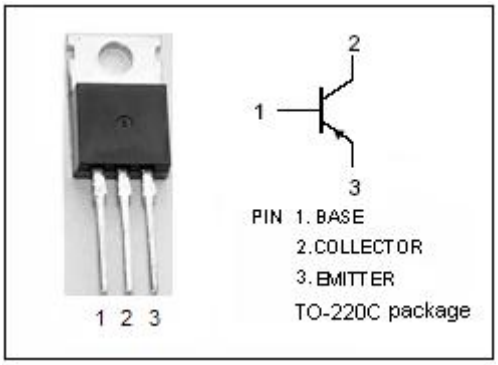
SPTECH Silicon PNP Power Transistor

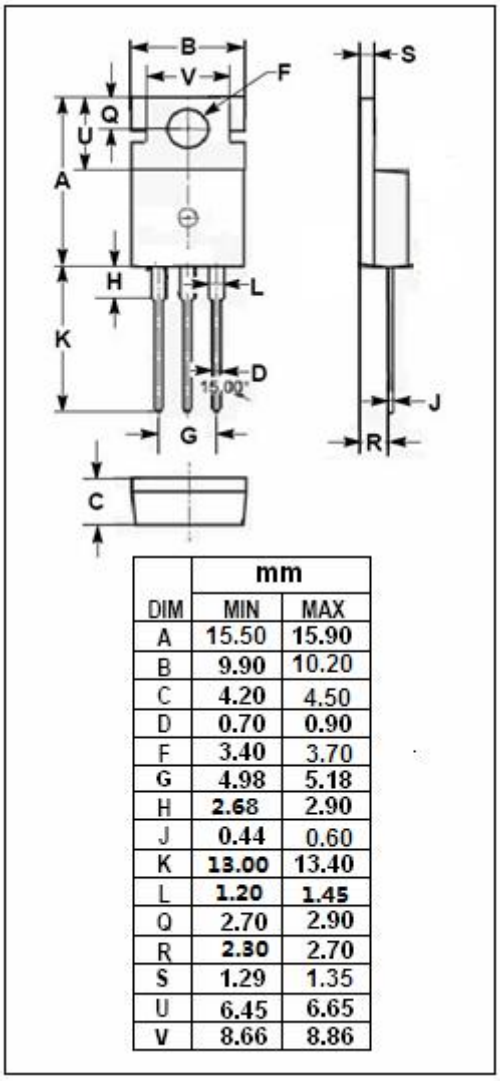


DESCRIPTION

- Collector-Emitter Breakdown Voltage
  : $V_{(BR)CEO}$= -160V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SC2238

APPLICATIONS

- Power amplifier applications
- Driver stage amplifier applications



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	1.20	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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1.5	A
I_E	Emitter Current- Continuous	1.5	A
P_C	Total Power Dissipation @ T_C=25℃	25	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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= -10mA ; I_B= 0	-160			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA ; I_C= 0	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -0.5A; I_B= -50mA			-1.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -0.5A ; V_{CE}= -5V			-1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -160V ; I_E= 0			-1.0	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-1.0	μA
h_{FE}	DC Current Gain	I_C= -0.1A ; V_{CE}= -5V	70		240	
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V; f_{test}= 1MHz		30		pF
f_T	Current-Gain—Bandwidth Product	I_C= -0.1A;V_{CE}= -10V		100		MHz

◆ **h_{FE} Classifications**

O	Y
70-140	120-240