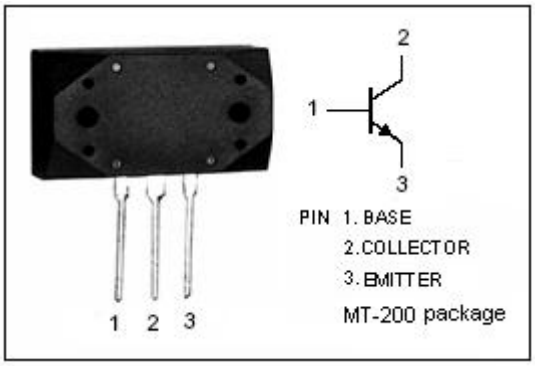
SPTECH Silicon NPN Power Transistor 2SC2565



DESCRIPTION

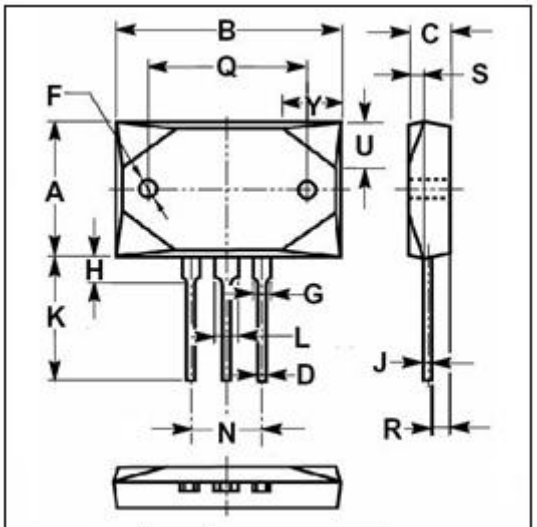
- High Collector-Emitter Breakdown Voltage-
  $V_{(BR)CEO}$= 160V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA1095

APPLICATIONS

- Designed for general purpose applications.

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	15	A
I_B	Base Current-Continuous	1.5	A
P_C	Collector Power Dissipation @ T_C=25℃	150	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	21.00	21.70
B	35.80	36.70
C	5.60	6.20
D	1.04	1.07
F	3.10	3.50
G	1.90	2.40
H	3.60	4.00
J	0.55	0.85
K	20.00	20.80
L	2.90	3.40
N	10.50	11.10
Q	24.00	24.50
R	2.90	3.30
S	2.00	2.20
U	6.90	7.10
Y	8.90	9.10

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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= 50mA ; I_B= 0	160			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 5A; I_B= 0.5A			2.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 160V; I_E= 0			5	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C=0			5	μA
$h_{FE\ 1}$	DC Current Gain	I_C= 1A; V_{CE}= 5V	55		240	
$h_{FE\ 2}$	DC Current Gain	I_C= 5A; V_{CE}= 5V	40			
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= 10V;f_{test}= 1.0MHz		200		pF
f_T	Current-Gain—Bandwidth Product	I_E= 1A; V_{CE}= 10V	25			MHz

h_{FE} 1 Classifications

K	O	Y
55-110	80-160	120-240