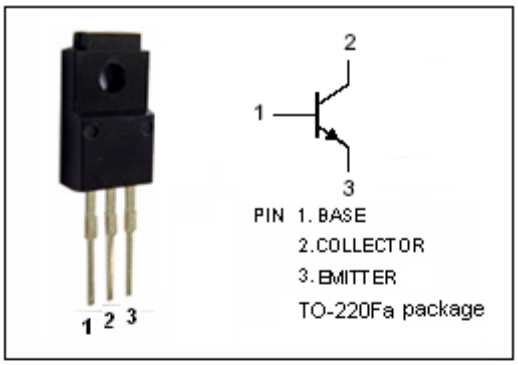
isc Silicon NPN Power Transistor 2SC5248

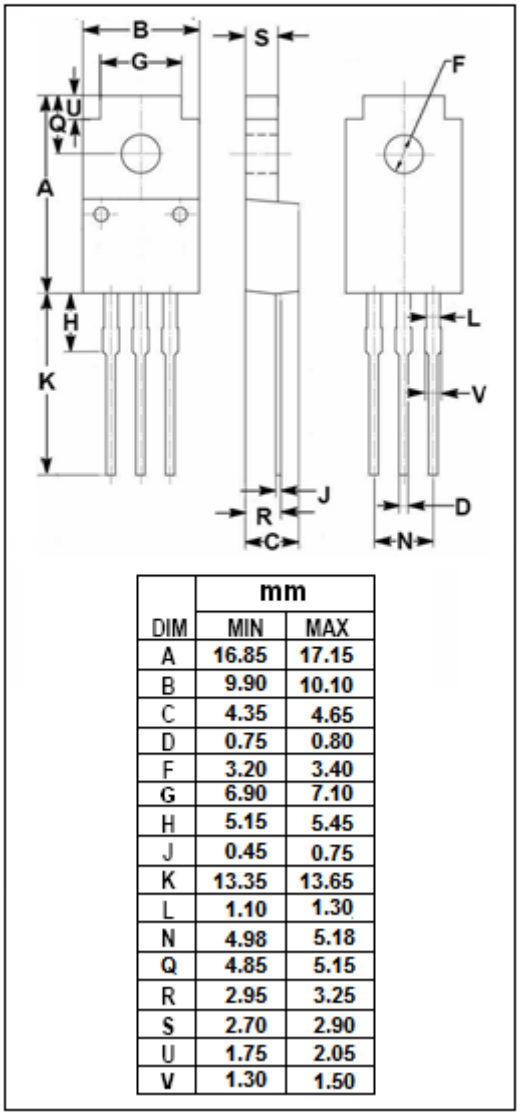


DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= 160V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SA1964

APPLICATIONS

- Power amplifier applications.
- Driver stage amplifier applications.



DIM	mm MIN	mm MAX
A	16.85	17.15
B	9.90	10.10
C	4.35	4.65
D	0.75	0.80
F	3.20	3.40
G	6.90	7.10
H	5.15	5.45
J	0.45	0.75
K	13.35	13.65
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.95	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

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
P_C	Collector Power Dissipation @T_a=25℃	2	W
	Collector Power Dissipation @T_C=25℃	20	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 1mA; I_B= 0	160			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 50μA; I_E= 0	160			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 50μA; I_C= 0	5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 1A; I_B= 0.1A			1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 160V; I_E= 0			1.0	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 4V; I_C= 0			1.0	μA
h_{FE}	DC Current Gain	I_C= 0.1A; V_{CE}= 5V	60		200	
f_T	Current-Gain—Bandwidth Product	I_C= 0.2A; V_{CE}= 10V		150		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= 10V; f= 1MHz		20		pF

◆ **h_{FE} Classifications**

D	E
60-120	100-200