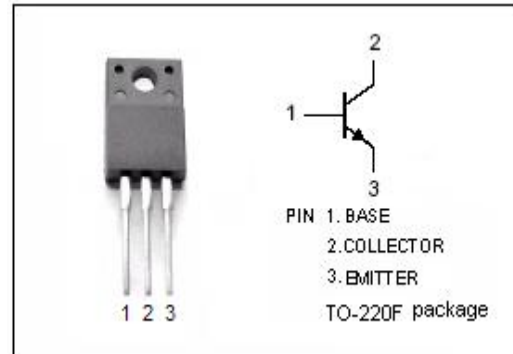


isc Silicon NPN Power Transistor
2SC3565
DESCRIPTION

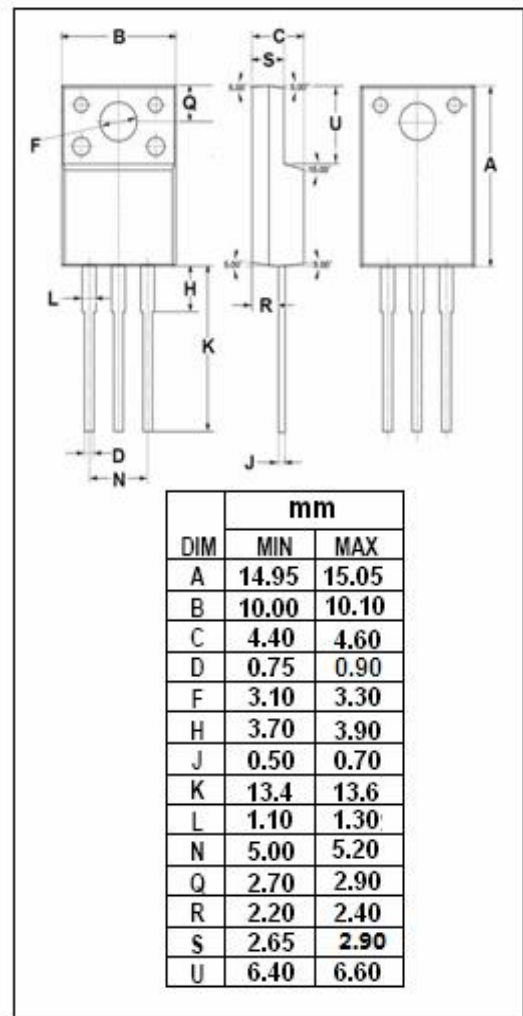
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 300V(\text{Min})$
- Good Linearity of h_{FE}
- Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in high frequency high voltage amplifier and TV video output applications.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	0.2	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-40~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor
2SC3565
ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μA ; I _E = 0	300			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; R _{BE} = ∞	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10 μA ; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA ; I _B = 2mA			1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 250V ; R _{BE} = ∞			1	μA
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	30		200	
f _T	Current-Gain—Bandwidth Product	I _C = 10mA ; V _{CE} = 20V		80		MHz

Notice:

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