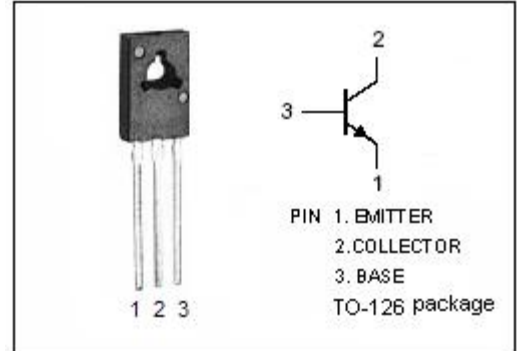


isc Silicon NPN Power Transistor

2SC1162

DESCRIPTION

- High Collector Current $I_C = 2.5A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 35V(\text{Min})$
- Good Linearity of h_{FE}
- Low Collector Saturation Voltage
- Complement to Type 2SA715
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

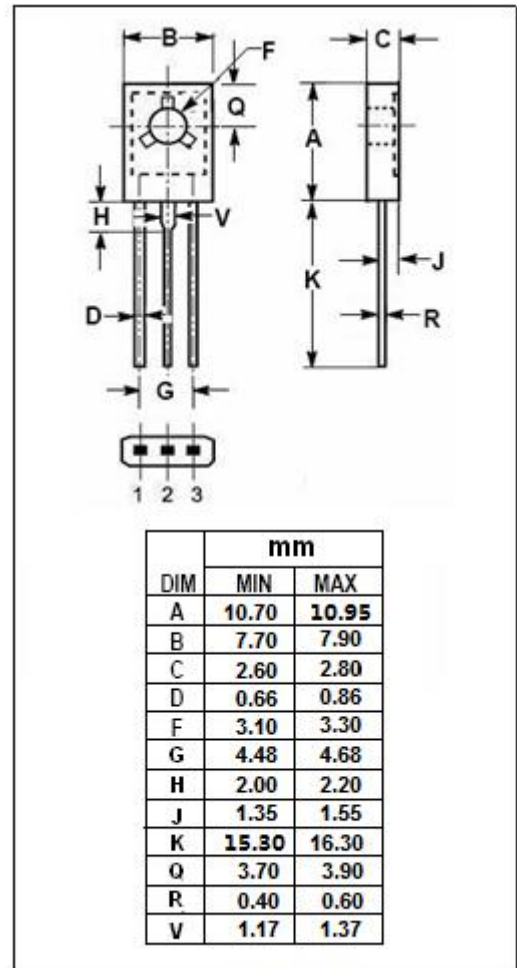


APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	35	V
V_{CEO}	Collector-Emitter Voltage	35	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	2.5	A
I_{CM}	Collector Current-Peak	3	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	10	W
	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	0.75	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC1162****ELECTRICAL CHARACTERISTICS** $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C=1\text{mA}; I_E=0$	35			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}; R_{BE}=\infty$	35			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=1\text{mA}; I_C=0$	5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=2\text{A}; I_B=0.2\text{A}$			1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=1.5\text{A}; V_{CE}=2\text{V}$			1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=35\text{V}; I_E=0$			20	μA
h_{FE-1}	DC Current Gain	$I_C=0.5\text{A}; V_{CE}=2\text{V}$	60		320	
h_{FE-2}	DC Current Gain	$I_C=1.5\text{A}; V_{CE}=2\text{V}$	20			
f_T	Current-Gain—Bandwidth Product	$I_C=0.2\text{A}; V_{CE}=2\text{V}$		180		MHz

◆ h_{FE-1} Classifications

B	C	D
60-120	100-200	160-320

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