

isc Silicon PNP Power Transistor

2SB713

DESCRIPTION

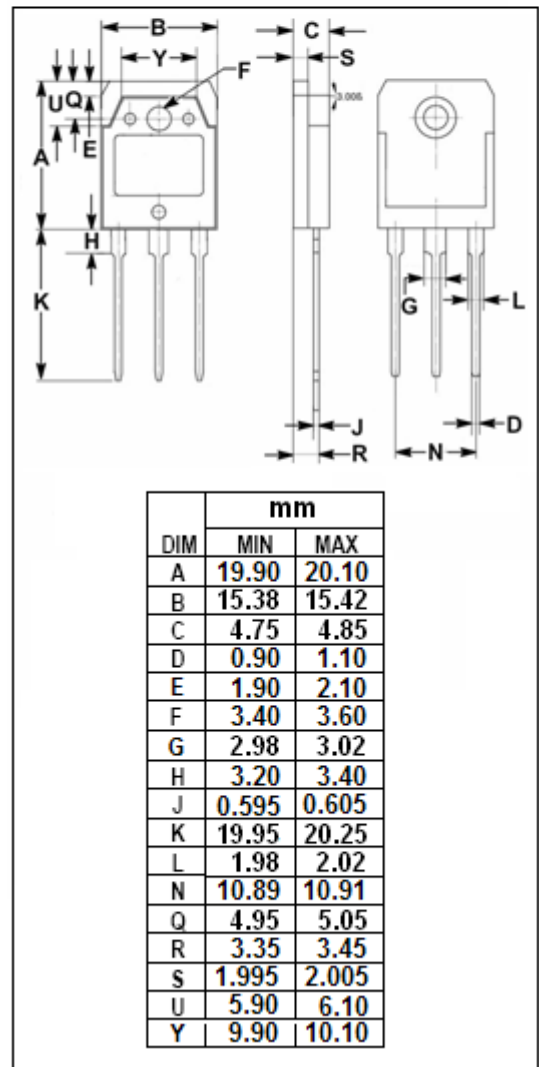
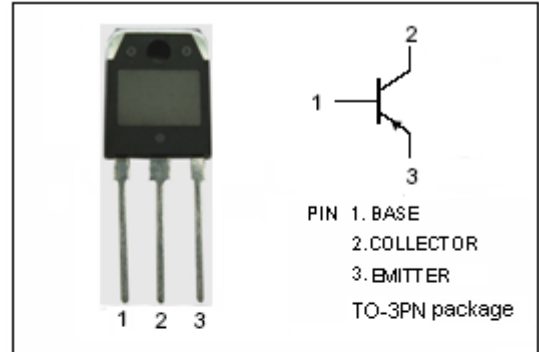
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = -140V(\text{Min})$
- Good Linearity of  $h_{FE}$
- High Power Dissipation
- Complement to Type 2SD751

APPLICATIONS

- Designed for high power audio frequency amplifier use.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-200	V
$V_{CEO}$	Collector-Emitter Voltage	-140	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-9	A
$I_{CP}$	Collector Current-Pulse	-15	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	100	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon PNP Power Transistor****2SB713****ELECTRICAL CHARACTERISTICS** $T_C=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5.0\text{A}; I_B = -0.7\text{A}$			-2.0	V
$V_{BE(on)}$	Base -Emitter On Voltage	$I_C = -7\text{A}; V_{CE} = -5\text{V}$			-1.8	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -140\text{V}; I_E = 0$			-50	$\mu\text{A}$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -3\text{V}; I_C = 0$			-50	$\mu\text{A}$
$h_{FE-1}$	DC Current Gain	$I_C = -20\text{mA}; V_{CE} = -5\text{V}$	20			
$h_{FE-2}$	DC Current Gain	$I_C = -1\text{A}; V_{CE} = -5\text{V}$	40		200	
$h_{FE-3}$	DC Current Gain	$I_C = -5\text{A}; V_{CE} = -5\text{V}$	15			
$f_T$	Current-Gain—Bandwidth Product	$I_C = -0.5\text{A}; V_{CE} = -5\text{V}$		20		MHz

◆  **$h_{FE-2}$  Classifications**

R	Q	P
40-80	60-120	100-200