

isc Silicon NPN Power Transistor

2SD795

DESCRIPTION

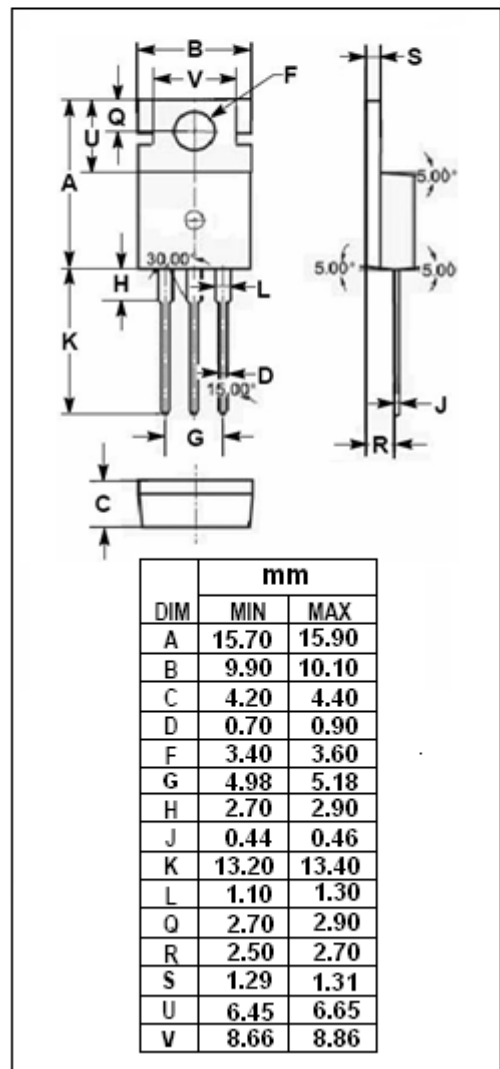
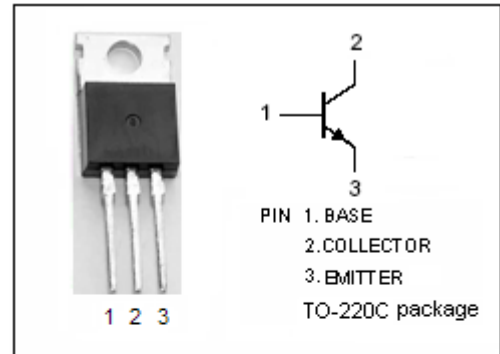
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 40V(\text{Min})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 0.7V(\text{Max}) @ I_C = 2.0A$

APPLICATIONS

- Designed for audio frequency power amplifier and low speed switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	3.0	A
I_{CM}	Collector Current-Peak	6.0	A
I_B	Base Current-Continuous	0.6	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1.5	W
	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	20	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SD795****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	$I_C=2A; I_B=0.2A$			0.7	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=0.5A; V_{CE}=1V$			0.9	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=50V; I_E=0$			1.0	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=3V; I_C=0$			1.0	μA
h_{FE-1}	DC Current Gain	$I_C=0.5A; V_{CE}=1V$	60		400	
h_{FE-2}	DC Current Gain	$I_C=2.5A; V_{CE}=1V$	30			
C_{OB}	Collector Output Capacitance	$I_E=0; V_{CB}=10V; f=1\text{MHz}$		40		pF
f_T	Current-Gain—Bandwidth Product	$I_C=0.1A; V_{CE}=5V$		95		MHz

◆ **h_{FE-1} Classifications**

R	Q	P	E
60-120	100-200	160-320	200-400