

isc Silicon PNP Power Transistor

2SA779

DESCRIPTION

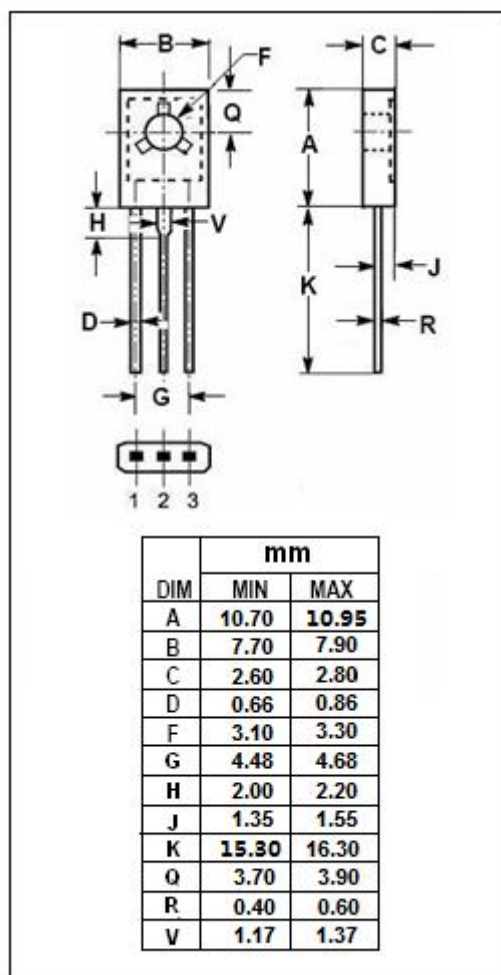
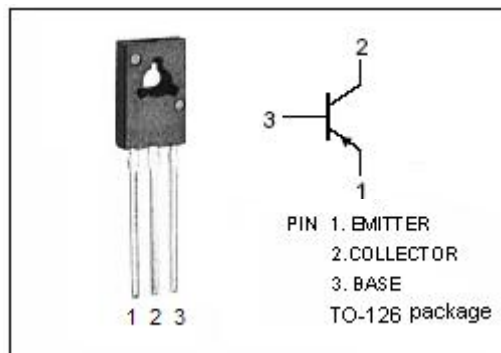
- DC Current Gain-
: $h_{FE} = 40(\text{Min}) @ I_C = -0.15\text{A}$
- Collector-Emitter Sustaining Voltage -
: $V_{CEO(\text{SUS})} = -35\text{V}(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use as audio amplifiers and drivers utilizing complementary or quasi complementary circuits.

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

SYMBOL	PARAMETER	VALUE
V_{CBO}	Collector-Base Voltage	-35
V_{CEO}	Collector-Emitter Voltage	-35
V_{EBO}	Emitter-Base Voltage	-5
I_C	Collector Current-Continuous	-1.5
I_B	Base Current-Continuous	-0.5
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	1.0
	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	10
T_J	Junction Temperature	150
T_{stg}	Storage Temperature Range	-55~150



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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -30\text{mA}$; $I_B = 0$	-35			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -0.5\text{A}$; $I_B = -50\text{mA}$			-0.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -0.5\text{A}$; $V_{CE} = -2\text{V}$			-1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -35\text{V}$; $I_E = 0$ $V_{CB} = -35\text{V}$; $I_E = 0$, $T_C = 125^{\circ}\text{C}$			-0.1 -10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}$; $I_C = 0$			-10	μA
h_{FE-1}	DC Current Gain	$I_C = -5\text{mA}$; $V_{CE} = -2\text{V}$	25			
h_{FE-2}	DC Current Gain	$I_C = -0.5\text{A}$; $V_{CE} = -2\text{V}$	25			
h_{FE-3}	DC Current Gain	$I_C = -0.15\text{A}$; $V_{CE} = -2\text{V}$	40		250	

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