

isc Silicon PNP Power Transistor

2SA1261

DESCRIPTION

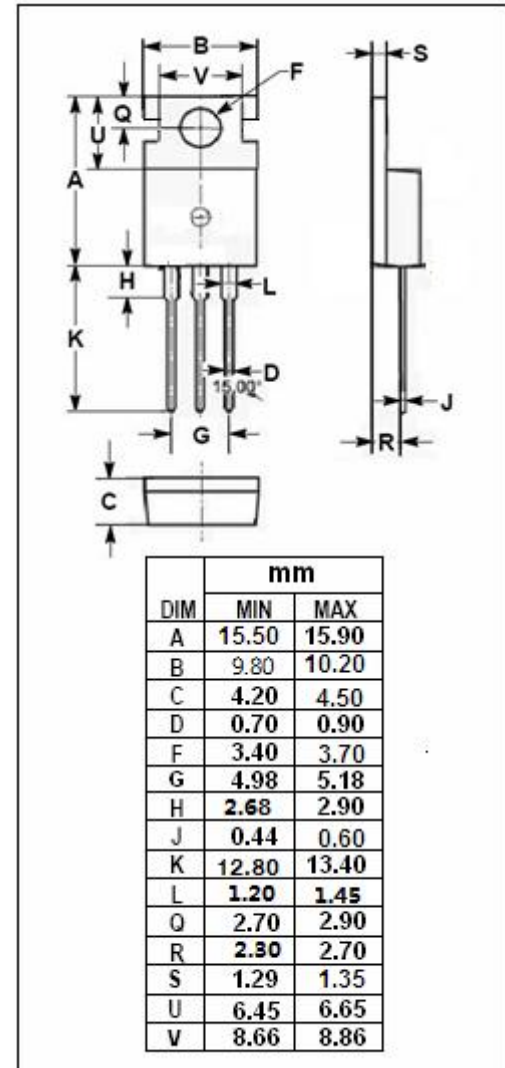
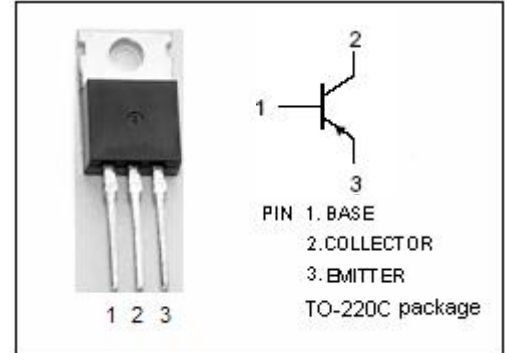
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.6V(\text{Max.})@I_C = -5A$
- Fast Switching Speed
- Complement to Type 2SC3157
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Developed for high-voltage high-speed switching, and is ideal for use as a driver in devices such as switching regulators, DC/DC converters, and high frequency power amplifiers.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-7.0	V
I_C	Collector Current-Continuous	-10	A
I_{CM}	Collector Current-Peak	-20	A
I_B	Base Current-Continuous	-3.5	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1.5	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	60	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA1261****ELECTRICAL CHARACTERISTICS** $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{CEO}	Collector-Emitter Sustaining Voltage	$I_C = -10\text{mA}$; I	-100		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5.0\text{A}$; $I_B = -0.5\text{A}$		-0.6	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -5.0\text{A}$; $I_B = -0.5\text{A}$		-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -100\text{V}$; $I_E = 0$		-10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}$; $I_C = 0$		-10	μA
h_{FE-1}	DC Current Gain	$I_C = -0.5\text{A}$; $V_{CE} = -5\text{V}$	40	200	
h_{FE-2}	DC Current Gain	$I_C = -3.0\text{A}$; $V_{CE} = -5\text{V}$	40	200	
h_{FE-3}	DC Current Gain	$I_C = -5.0\text{A}$; $V_{CE} = -5\text{V}$	20		

◆ h_{FE-2} Classifications

M	L	K
40-80	60-120	100-200

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