

**isc Silicon PNP Power Transistor**
**KSA1156**
**DESCRIPTION**

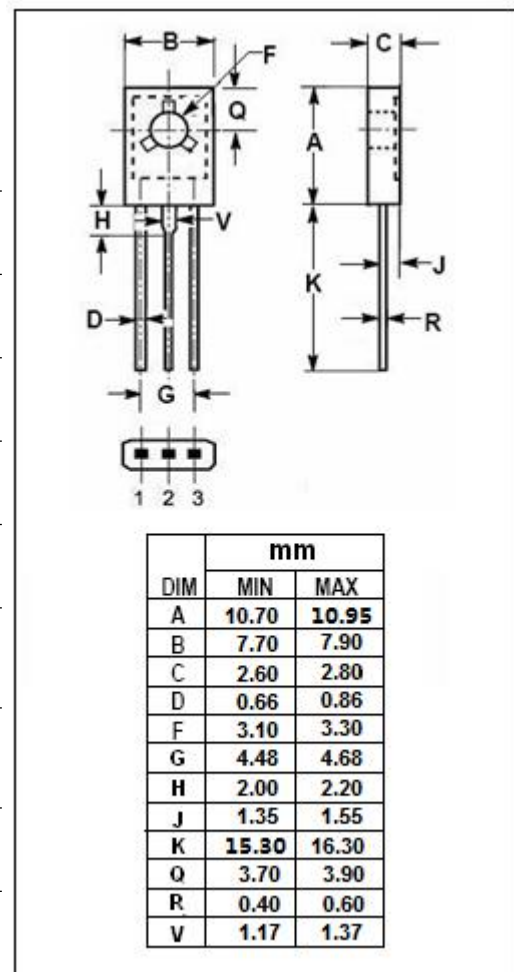
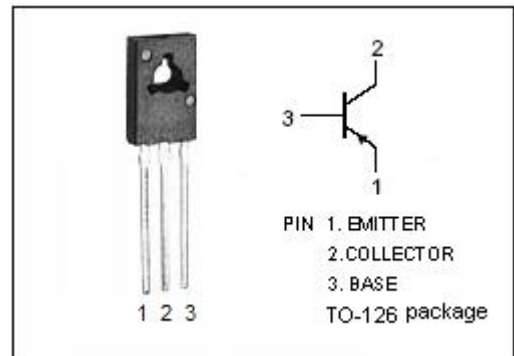
- Low Collector Saturation Voltage
- High voltage
- High speed switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- High voltage switching
- Low power switching regulator
- DC-DC converter

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CB0}$	Collector-Base Voltage	-400	V
$V_{CE0}$	Collector-Emitter Voltage	-400	V
$V_{EB0}$	Emitter-Base Voltage	-7	V
$I_C$	Collector Current-Continuous	-0.5	A
$P_C$	Total Power Dissipation @ $T_a=25^{\circ}\text{C}$	1.0	W
	Total Power Dissipation @ $T_C=25^{\circ}\text{C}$	10	W
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



**isc Silicon PNP Power Transistor****KSA1156****ELECTRICAL CHARACTERISTICS**T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -100mA; I <sub>B</sub> = -10mA			-1.0	V
V <sub>BE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -100mA; I <sub>B</sub> = -10mA			-1.2	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -400V; I <sub>E</sub> = 0			-100	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-10	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -100mA; V <sub>CE</sub> = -5V	30		200	

◆ **h<sub>FE</sub> Classifications**

N	R	O	Y
30-60	40-80	60-120	100-200

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