

**isc Silicon PNP Power Transistor**
**KSE45H11**
**DESCRIPTION**

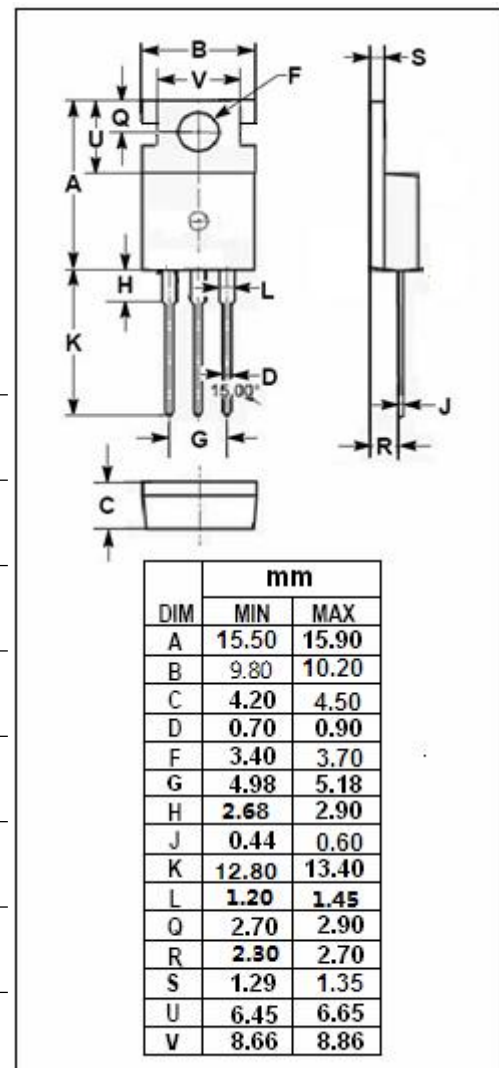
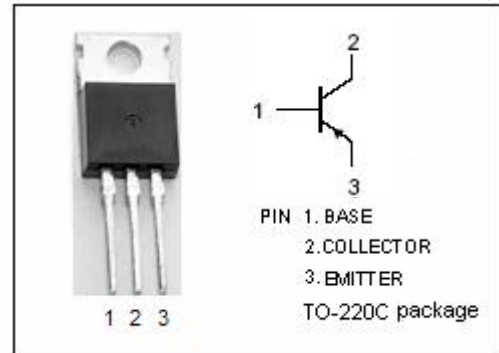
- Collector-Emitter Breakdown Voltage  
:  $V_{(BR)CEO} = -80V(\text{Min})$
- High DC Current Gain  
:  $h_{FE} = 60(\text{Min})@ (V_{CE} = -1V, I_C = -2A)$
- Low Saturation Voltage-  
:  $V_{CE(sat)} = -1.0V(\text{Max})@ (I_C = -8A, I_B = -0.4A)$
- Complement to Type KSE44H11
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for use as a driver in DC/DC converters and actuators.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-10	A
$I_{CP}$	Collector Current-Pulse	-20	A
$P_C$	Total Power Dissipation @ $T_C=25^\circ\text{C}$	50	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon PNP Power Transistor**
**KSH45H11**
**ELECTRICAL CHARACTERISTICS**
**T<sub>c</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)CEO</sub> *	Collector-Emitter Breakdown Voltage	I <sub>c</sub> = -30mA; I <sub>B</sub> = 0	-80		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>c</sub> = -8A; I <sub>B</sub> = -400mA		-1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>c</sub> =8A; I <sub>B</sub> = 800mA		-1.5	V
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = -80V; I <sub>E</sub> = 0		-10	uA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0		-50	uA
h <sub>FE-1</sub>	DC Current Gain	I <sub>c</sub> = -2A; V <sub>CE</sub> = -1V	60		
h <sub>FE-2</sub>	DC Current Gain	I <sub>c</sub> = -4A; V <sub>CE</sub> = -1V	40		

\*:Pulse test PW≤300us,duty cycle≤2%

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