

isc Silicon PNP Power Transistor

KSH45H11I

DESCRIPTION

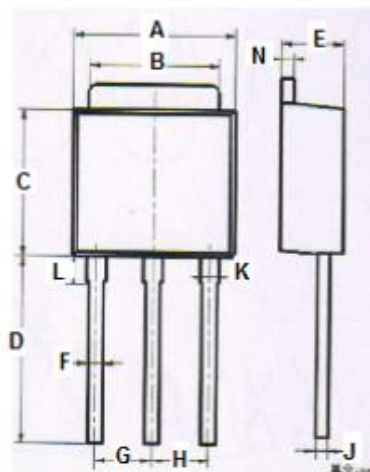
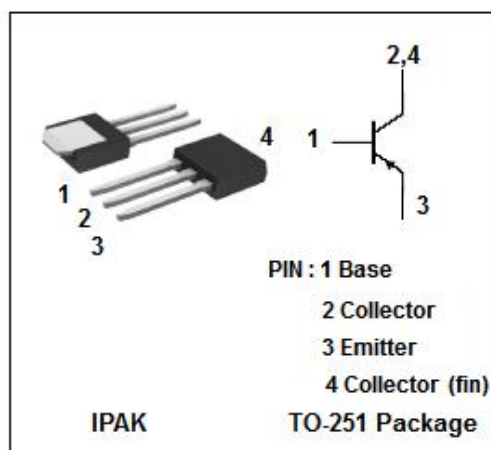
- Lead formed for surface mount applications(NO suffix)
- Straight lead(IPAK, “-I” suffix)
- Electrically similar to popular KSE45H
- Fast switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- General purpose power and switching such as output or driver stages in applications

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	-8	A
I_{CP}	Collector Current-Pulse	-16	A
P_C	Total Power Dissipation @ $T_a=25^\circ\text{C}$	1.75	W
	Total Power Dissipation @ $T_C=25^\circ\text{C}$	20	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



DIM	mm	
	MIN	MAX
A	6.40	6.48
B	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
H	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00
N	0.40	0.60

isc Silicon PNP Power Transistor**KSH45H11I****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO} *	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =-8A; I _B = -400mA			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =-8A; I _B = -800mA			-1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} =- 80V; I _E = 0			-10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =- 5V; I _C = 0			-50	uA
h _{FE1}	DC Current Gain	I _C = -2A; V _{CE} = -1V	60			
h _{FE2}	DC Current Gain	I _C =- 4A; V _{CE} = -1V	40			
f _T	Current-Gain—Bandwidth Product	I _C =- 0.5A; V _{CE} = -10V		40		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = -10V, f _{test} = 1MHz		230		pF

*:Pulse test PW≤300us,duty cycle≤2%

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