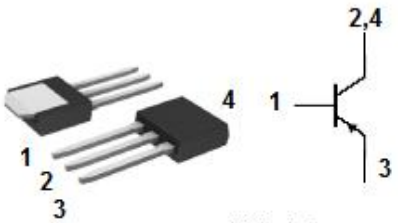
isc Silicon PNP Power Transistor — KSH45H11I

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



PIN : 1 Base
2 Collector
3 Emitter
4 Collector (fin)

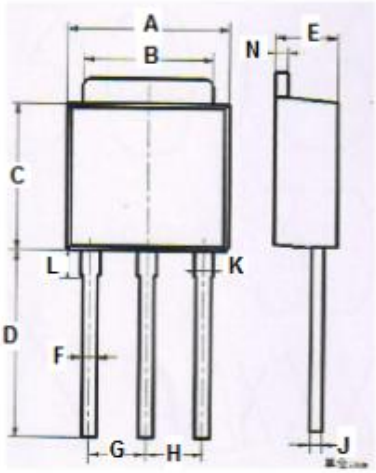
IPAK — TO-251 Package

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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 @ Ta=25℃	1.75	W
	Total Power Dissipation @ T_C=25℃	20	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



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

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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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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