

isc Silicon PNP Power Transistor

DESCRIPTION

- Lead formed for surface mount applications(NO suffix)
- Straight lead(IPAK, "-I" suffix)
- Electrically similar to popular TIP42C
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

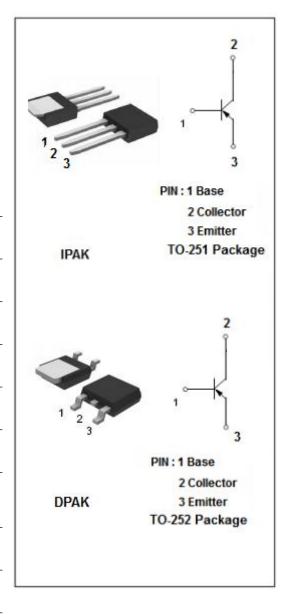
APPLICATIONS



- General purpose amplifier
- Low speed switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	٧
V _{CEO}	Collector-Emitter Voltage	-100	>
V _{EBO}	Emitter-Base Voltage	-5	>
Ic	Collector Current-Continuous	-6	Α
Pc	Total Power Dissipation @ Ta=25℃	1.75	W
Pc	Total Power Dissipation @ T _C =25℃	20	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





isc Silicon PNP Power Transistor

KSH42C

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

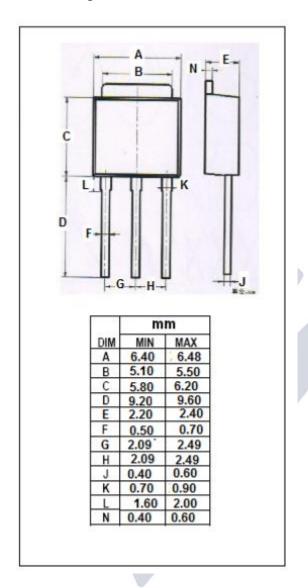
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO} *	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-100			V
V _{CE(sat)*}	Collector-Emitter Saturation Voltage	I _C =- 6A; I _B =- 600mA			-1.5	V
V _{BE(on)*}	Base-Emitter On Voltage	I _C =- 6A; V _{CE} =-4V			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} =- 5V; I _C = 0			-0.5	mA
h _{FE1*}	DC Current Gain	I _C =- 0.3A; V _{CE} = -4V	30			
h _{FE2*}	DC Current Gain	I _C = -3A; V _{CE} = -4V	15		75	
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V	3			MHz

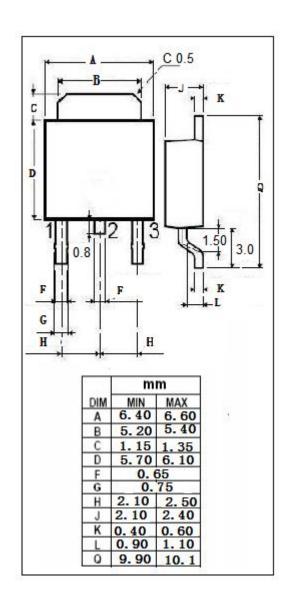
^{*:}Pulse test PW≤300us,duty cycle≤2%



isc Silicon PNP Power Transistor

Outline Drawing





NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.