

isc Silicon PNP Power Transistor

DESCRIPTION

- · High DC current gain
- · Built-in a damper diode at E-C
- Electrically similar to popular TIP127
- DPAK for surface mount applications
- Lead formed for surface mount applications(NO suffix)
- Straight lead(IPAK, "-I" suffix)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

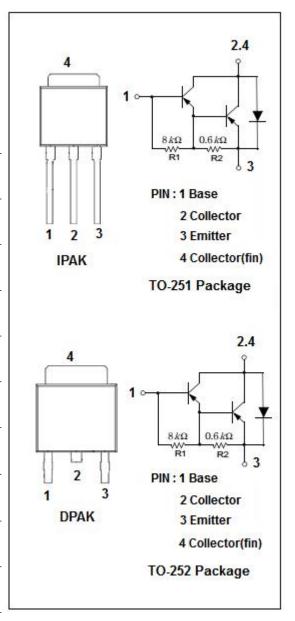
APPLICATIONS



 Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	oltage -100	
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-8	Α
I _{CP}	Collector Current-Pulse	-16	А
Pc	Collector Power Dissipation Ta=25℃	1.75	W
Pc	Collector Power Dissipation T _C =25 ℃	20	W
Тл	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$





isc Silicon PNP Power Transistor

KSH127

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

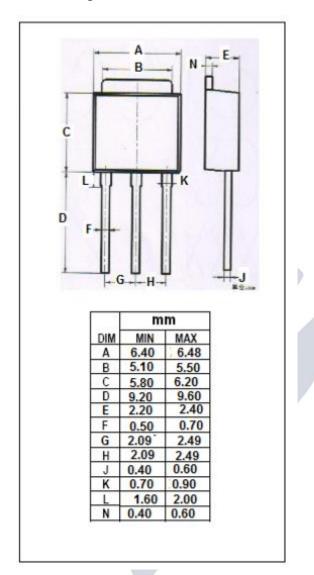
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)-1*	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -16mA			-2.0	V
V _{CE(sat)-2*}	Collector-Emitter Saturation Voltage	I _C = -8A; I _B = -80mA			-4.0	V
V _{BE(sat)*}	Base-Emitter Saturation Voltage	Ic=-8A; I _B = -80mA			-4.5	V
V _{BE(on)*}	Base-Emitter On Voltage	I _C = -4A; V _{CE} = -4V			-2.8	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =-30mA; I _B = 0	-100			V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2	mA
h _{FE-1*}	DC Current Gain	I _C = -4A; V _{CE} = -4V	1K		12K	
h _{FE-2*}	DC Current Gain	I _C = -8A; V _{CE} = -4V	100			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		300		pF

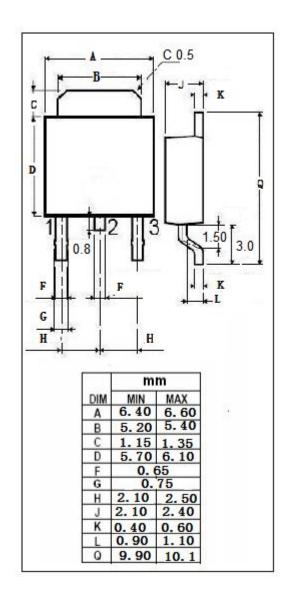
^{*:}Pulse test PW≤300us,duty cycle≤2%

isc Silicon PNP Power Transistor

KSH127

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.