

isc Silicon NPN Power Transistor

DESCRIPTION

- · High DC current gain
- Built-in a damper diode at E-C
- Electrically similar to popular TIP122
- 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

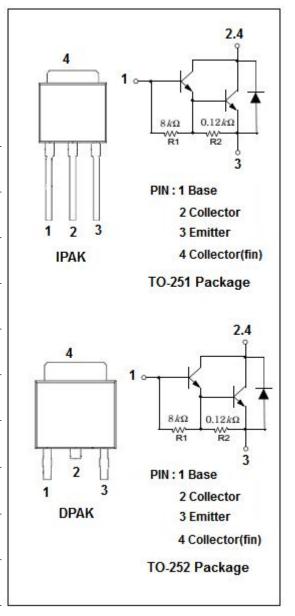
APPLICATIONS



 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	100	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	8	А	
I _{CP}	Collector Current-Pulse 16		А	
Pc	Collector Power Dissipation Ta=25℃	1.75	W	
Pc	Collector Power Dissipation T _C =25 °C	20	W	
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





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KSH122

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	I _C =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			٧
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		200		pF

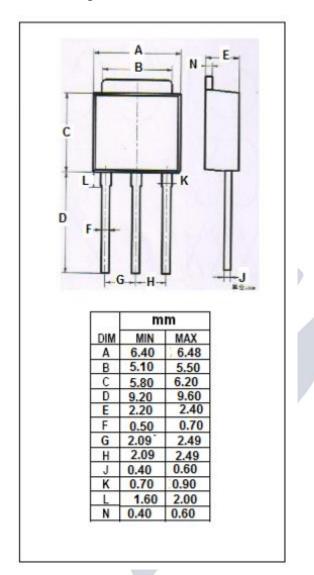
^{*:}Pulse test PW≤300us,duty cycle≤2%

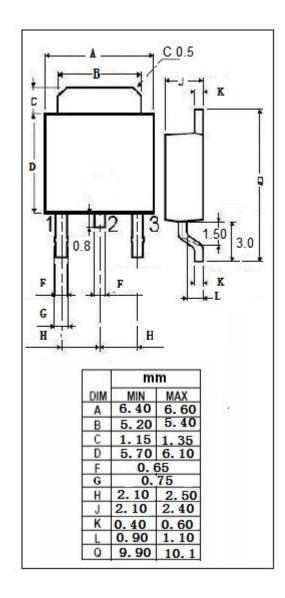


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Outline Drawing





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