

isc Silicon NPN Power Transistor

DESCRIPTION

- Lead formed for surface mount applications(NO suffix)
- Straight lead(IPAK, "-I" suffix)
- Electrically similar to popular TIP47
- · High voltage and high reliability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

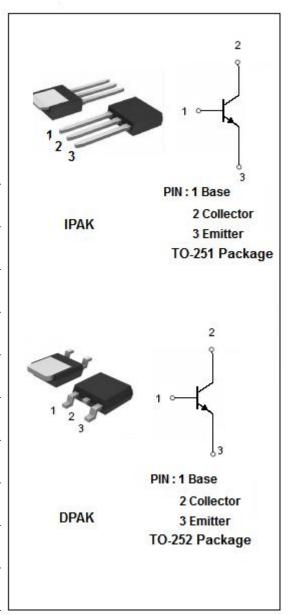


APPLICATIONS

· designed for line operated audio output amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	350	V
V _{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	1	А
I _{CP}	Collector Current-Pulse	2	Α
Pc	Total Power Dissipation @ Ta=25℃	1.56	W
Pc	Total Power Dissipation @ T _C =25°C	15	W
TJ	Junction Temperature	150	℃
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





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KSH47

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

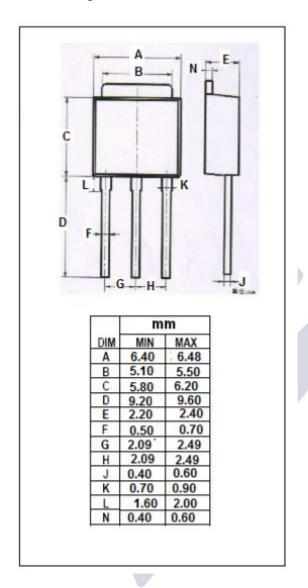
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO} *	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	250			V
V _{CE(sat)*}	Collector-Emitter Saturation Voltage	I _C =1A; I _B = 200mA			1.0	V
V _{BE(on)*}	Base-Emitter On Voltage	I _C = 1A; V _{CE} =10V			1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 150V; I _E = 0			0.2	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE1*}	DC Current Gain	I _C = 0.3A; V _{CE} = 10 V	30		150	
h _{FE2*}	DC Current Gain	I _C = 1A; V _{CE} = 10 V	10			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V	10			MHz

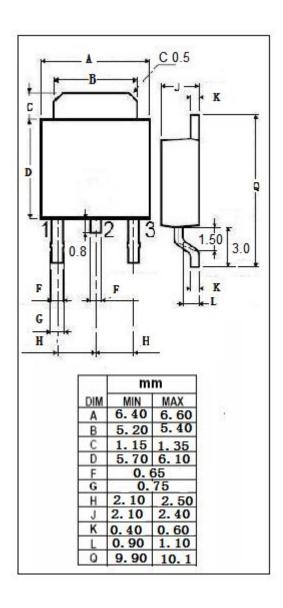
^{*:}Pulse test PW≤300us,duty cycle≤2%



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Outline Drawing





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