

isc Silicon PNP Power Transistor

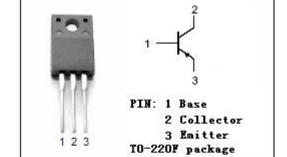
DESCRIPTION

- · Low Collector Saturation Voltage-
 - : $V_{CE(sat)}$ = -1.7 $V(Max)@I_C$ = -3A
- Good Linearity of hFE
- Complement to Type KSD1408
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



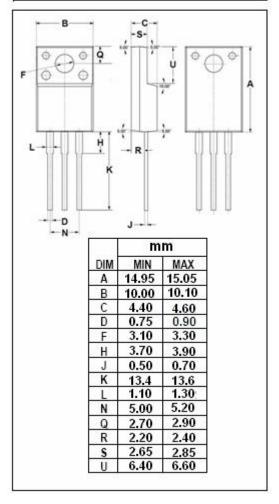
APPLICATIONS

- · Designed for power amplifier applications.
- Recommended for 20~25W high-fidelity audio frequency amplifier output stage.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-4	А	
I _B	Base Current-Continuous	-0.4	А	
P _C	Collector Power Dissipation @ T _a =25℃	2	W	
	Collector Power Dissipation @ T _C =25°C	25		
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$	





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KSB1017

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = -50mA; I_{B} = 0	-80			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-30	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		240	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -5V	15			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		130		pF
f⊤	Current-Gain—Bandwidth Product	Ic= -0.5A; V _{CE} = -5V		9		MHz

♦ h_{FE-1} Classifications

R	0	Y
40-80	70-140	120-240

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