

isc Silicon PNP Power Transistor

2SB747

DESCRIPTION

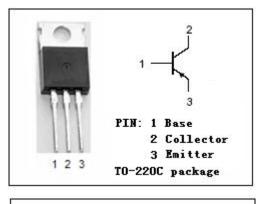
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -80V(Min)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SD812
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

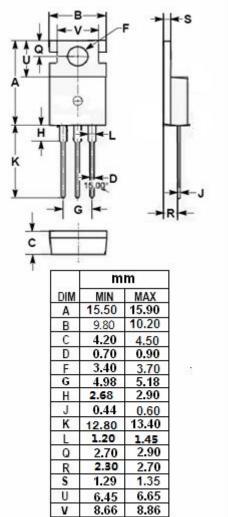
APPLICATIONS

- High power amplifier applications.
- Suitable for 15~20W home stereo output amplifier and voltage regulator.

SYMBOL PARAMETER VALUE UNIT VCBO Collector-Base Voltage -80 V Collector-Emitter Voltage -80 V V_{CEO} Emitter-Base Voltage V VEBO -5 **Collector Current-Continuous** -5 А lc Ісм Collector Current-Peak -8 А **Collector Power Dissipation** P_C 40 W @ Tc=25°C °C ТJ Junction Temperature 150 Storage Temperature Range -55~150 °C Tstg

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-2.0	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -5V			-1.8	V
I _{СВО}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-50	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-50	μA
h _{FE-1}	DC Current Gain	I _C = -20mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	40		200	
h _{FE-3}	DC Current Gain	I _C = -3A; V _{CE} = -5V	20			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		190		pF
f⊤	Current-Gain—Bandwidth Product	Ic= -0.5A; Vce= -5V		7		MHz

h_{FE-2} Classifications

R	Q	Ρ
40-80	60-120	100-200

NOTICE:

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