

isc Silicon PNP Power Transistor

2SB616

DESCRIPTION

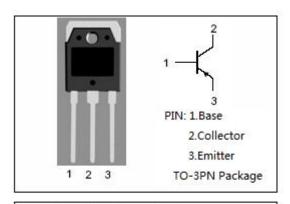
- · Collector-Emitter BreakdownVoltage-
 - : V_{(BR)CEO}= -100V(Min.)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= -1.0(Max.) @I_C= -2A
- With TO-3PN package
- Complement to Type 2SD586
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

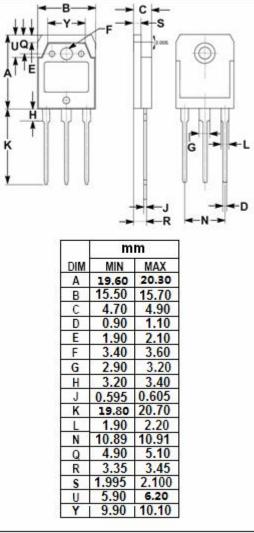
APPLICATIONS

· Designed for power amplifiers applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage -5		V
Ic	Collector Current-Continuous	-5	Α
Pc	Collector Power Dissipation@Tc=25℃	60	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= -30mA; R _{BE} = ∞	-100			V
V _{(BR)CBO}	Collector-Base breakdown voltage	I _C =-1mA; I _E = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C =- 1A; V _{CE} =-5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			-100	μА
h _{FE}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	60			
f⊤	Current-Gain—Bandwidth Product	Ic=-1A; Vc== -5V		15		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = -10V,f _{test} = 1MHz		140		pF

Notice:

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