

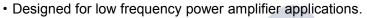


isc Silicon NPN Power Transistor

DESCRIPTION

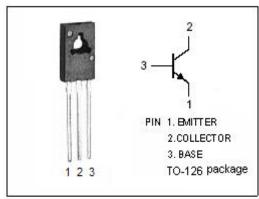
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 160V (Min)
- Wide Area of Safe Operation
- Complement to Type 2SB1086A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

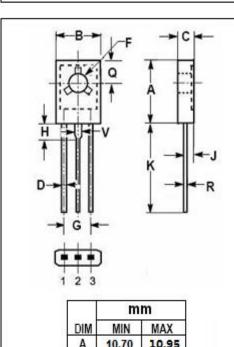




ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	5.0	V
lc	Collector Current-Continuous	1.5	Α
I _{CM}	Collector Current-Peak	3	Α
P _C	Total Power Dissipation $\textcircled{T}_{\text{C}}$ Total Power Dissipation	10	W
	Total Power Dissipation @ T _a =25°C	1.2	VV
TJ	Junction Temperature	150	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!\mathbb{C}$





	mm	
DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
Н	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
٧	1.17	1.37



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2SD1563A

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	160			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	160			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 50 μ A; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 1A; I _B = 0.1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	μА
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	56		270	
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		80		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		20		pF

h_{FE} Classifications

N	P	Q
56-120	82-180	120-270

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