

isc Silicon NPN Power Transistor

DESCRIPTION

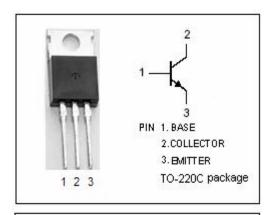
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min)
- · Good Linearity of hFE
- Wide Area of Safe Operation
- · Complement to Type 2SB1346
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

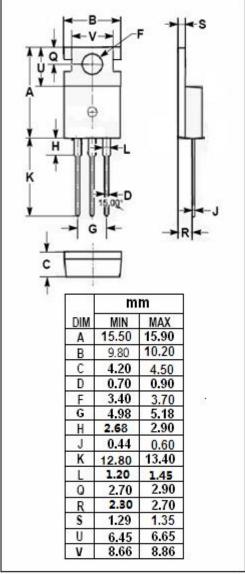


 Designed for low frequency and general purpose amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	3	Α	
I _{CM}	Collector Current-Peak	8	Α	
P _C	Collector Power Dissipation @T _a =25°C	1.75	W	
	Collector Power Dissipation @T _C =25°C	30	VV	
TJ	Junction Temperature 150		${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}\!\mathbb{C}$	







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2SD2027

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; R _{BE} = ∞	60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A; V _{CE} = 5V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V; I _E =0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C =0			100	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	70		280	
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 5V	20			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f= 1MHz		60		pF
f⊤	Current-Gain—Bandwidth Product	Ic= 0.5A; Vc== 5V		8		MHz

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