

isc Silicon PNP Power Transistor

2SA1078

DESCRIPTION

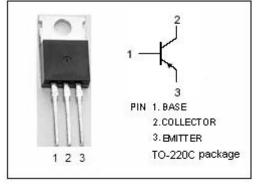
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -120V(Min.)
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SC2528
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

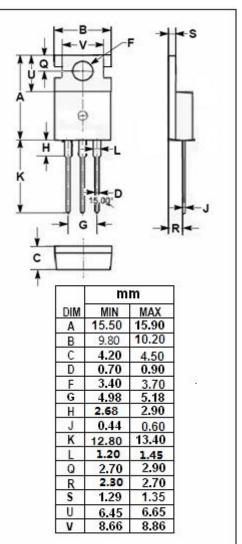
APPLICATIONS

- · High frequency power amplifiers
- Audio power amplifiers and drivers

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	
V_{EBO}	Emitter-Base Voltage	ase Voltage -5	
lc	Collector Current-Continuous	-2	А
Pc	Collector Power Dissipation @Tc=25°C	25	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C





isc website: <u>www.iscsemi.com</u>

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= -1mA; R _{BE} = ∞	-120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1 μ Α; I _E = 0	-120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1 μ A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.7A; I _B = -0.07A			-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.7A; V _{CE} = -5V			-1.7	V
Ісво	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-1	μA
I _{CEO}	Collector Cutoff Current	V _{CE} = -120V; I _B = 0			-100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	μA
h _{FE-1}	DC Current Gain	Ic= -0.3A; Vce= -5V	60		350	
h _{FE-2}	DC Current Gain	I _C = -0.7A; V _{CE} = -5V	50			
Сов	Outut Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		100		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V; f=10MHz		140		MHz

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