

isc Silicon PNP Power Transistor

2SA1077

DESCRIPTION

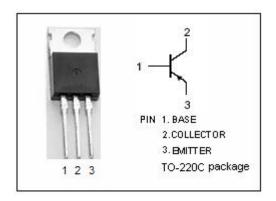
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -120V(Min.)
- · Fast Switching Speed
- · Wide Area of Safe Operation
- Complement to Type 2SC2527
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

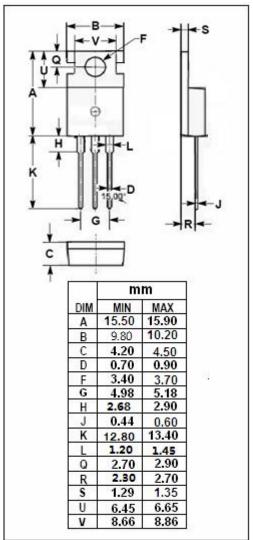
APPLICATIONS

- · High frequency power amplifiers
- · Audio power amplifiers
- · Switching regulators
- DC-DC converters

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-7.0	V
Ic	Collector Current-Continuous	-10	А
Pc	Collector Power Dissipation @T _C =25°C	60	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; R _{BE} = ∞	-120			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I _C = -50 μ A; I _E = 0	-120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μ A; I _C = 0	-7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.8	V
V _{BE(on)}	Base to Emitter Voltage	V _{CE} = -5V; I _C = 5A			-1.7	V
Ісво	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-50	μА
I _{CEO}	Collector Cutoff Current	V _{CE} = -120V; I _B = 0			-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-50	μА
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	40			

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