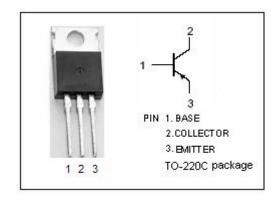


isc Silicon PNP Power Transistor

MJE15029

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 120V(Min)
- · High Current Gain-Bandwidth Product-
- : f_T = 30MHz(Min)@ I_C = -0.5A
- DC current gain -
 - : $h_{FE} = 40$ (Min) @ $I_{C} = -3.0$ A
 - : h_{FE} = 20 (Min) @I_C= -4.0 A
 - Complement to Type MJE15028
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

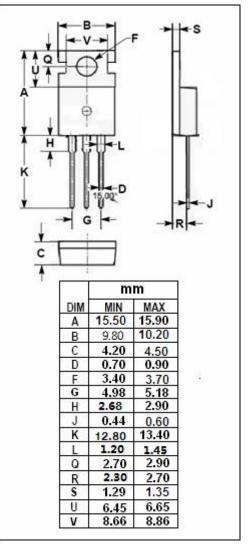
 Designed for use as high–frequency drivers in audio amplifiers.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	٧
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-8	Α
I _{CM}	Collector Current-Peak	-16	Α
I _B	Base Current	-2	А
Pc	Collector Power Dissipation @T _a =25℃	2	
	Collector Power Dissipation @T _C =25°C	50	W
T _j	Junction Temperature -65~150		$^{\circ}$
T _{stg}	Storage Temperature -65~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth j-c	Thermal Resistance,Junction to Case		°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance, Junction to Ambient		°C/W





isc Silicon PNP Power Transistor

MJE15029

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA ;I _B = 0	-120		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A ;I _B = -0.1A		-0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A ; V _{CE} = -2V		-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0		-10	μА
I _{CEO}	Collector Cutoff Current	V _{CE} = -120V; I _B = 0		-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-10	μА
h _{FE-1}	DC Current Gain	Ic= -0.1A; Vc= -2V	40		
h _{FE-2}	DC Current Gain	I _C = -2A ; V _{CE} = -2V	40		
h _{FE-3}	DC Current Gain	I _C = -3A ; V _{CE} = -2V	40		
h _{FE-4}	DC Current Gain	I _C = -4A ; V _{CE} = -2V	20		
f⊤	Current Gain-Bandwidth Product	I _C = -0.5A;V _{CE} = -10V; f _{test} = 10MHz	30		MHz

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