SPTECH Silicon PNP Power Transistor

MJE15031

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 150V(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 MJE15030

APPLICATIONS

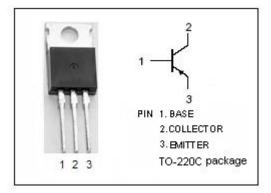
• Designed for use as high–frequency drivers in audio amplifiers.

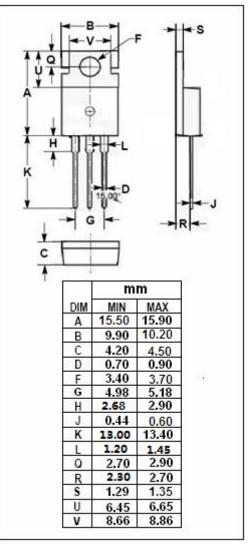
SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	-150	V	
V _{CEO}	Collector-Emitter Voltage	-150	V	
V_{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-8	Α	
I _{CM}	Collector Current-Peak	-16	Α	
I _B	Base Current	-2	Α	
Pc	Collector Power Dissipation @Ta=25℃	2	W	
	Collector Power Dissipation @T _C =25℃	50		
Tj	Junction Temperature 150		°C	
T _{stg}	Storage Temperature	-65~150	°C	

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°C /W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W





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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	I _c = -10mA ;I _B = 0	-150		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} = -150V; I _E = 0		-10	μA
I _{CEO}	Collector Cutoff Current	V _{CE} = -150V; I _B = 0		-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-10	μA
h _{FE-1}	DC Current Gain	I _C = -0.1A ; V _{CE} = -2V	40		
h _{FE-2}	DC Current Gain	I _C = -2A ; V _{CE} = -2V	40	200	
h _{FE-3}	DC Current Gain	Ic= -3A ; Vce= -2V	40		
h _{FE-4}	DC Current Gain	I _C = -4A ; V _{CE} = -2V	20		
f⊤	Current Gain-Bandwidth Product	Ic= -0.5A;VcE= -10V; ftest= 10MHz	20		MHz

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