

SPTECH Silicon NPN Power Transistor

MJE15030

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 MJE15031

APPLICATIONS

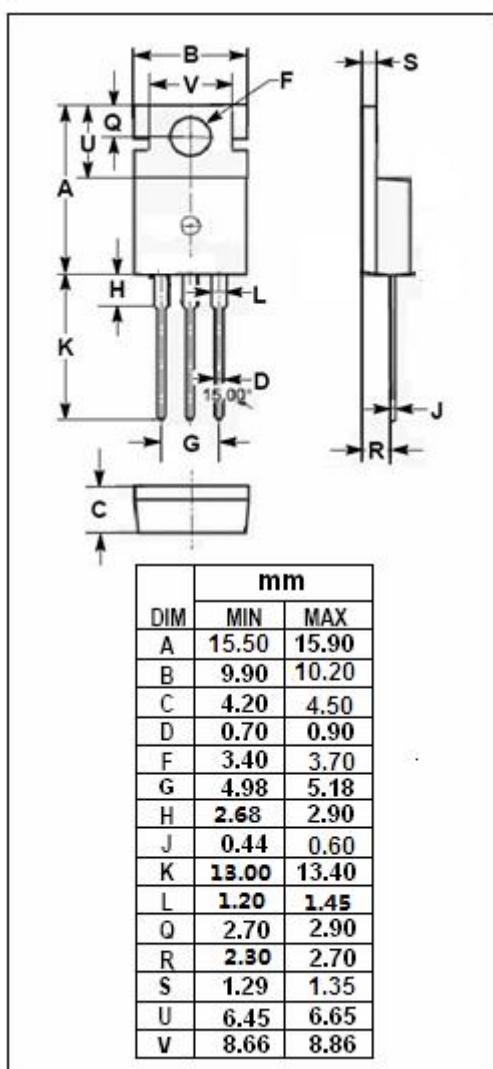
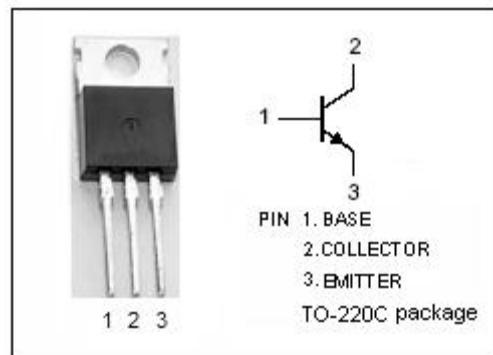
- Designed for use as high-frequency drivers in audio amplifiers.

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	8	A
I_{CM}	Collector Current-Peak	16	A
I_B	Base Current	2	A
P_c	Collector Power Dissipation $@T_a=25^\circ C$	2	W
	Collector Power Dissipation $@T_c=25^\circ C$	50	
T_j	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-65~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	2.5	$^\circ C/W$
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	62.5	$^\circ C/W$



SPTECH Product Specification

SPTECH Silicon NPN Power Transistors

MJE15030

ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(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	µ A
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	µ A
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		
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 _T	Current Gain-Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f _{test} = 10MHz	20		MHz

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