SPTECH Silicon NPN Power Transistor

MJW0281A

DESCRIPTION

- High DC current amplifier rate h_{FE:} 50-200@V_{CE}= 5V,I_C= 1A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

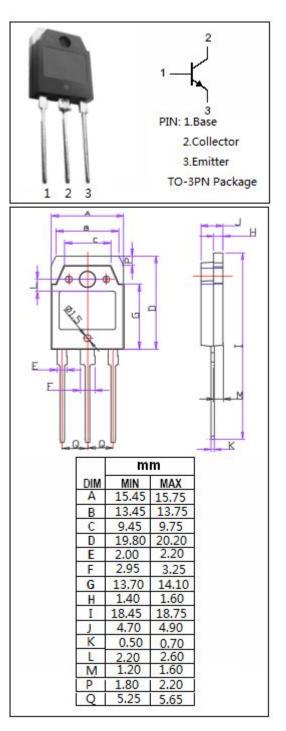
• High power audio, disk head positioners and other linear applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	250	V	
V _{CEO}	Collector-Emitter Voltage	250	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ι _C	Collector Current-Continuous	ollector Current-Continuous 15		
Іср	Collector Current-Pulse 30		A	
I _B	Base Current-Continuous	1.5	A	
Pc	Total Power Dissipation @ T _C =25℃	150	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.63	°C/W



SPTECH website: www.superic-tech.com

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic=100mA ; I _B =0	250		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A		2	V
V _{BE(on)}	Base-Emitter Saturation Voltage	I _C = 8A; V _{CE} = 5V		2	V
І _{сво}	Collector Cutoff Current	V _{CB} = 250V ; I _E =0		50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		5	μA
h _{FE-1}	DC Current Gain	I _C = 100mA ; V _{CE} = 5V	75	150	
h _{FE-2}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	75	150	
h _{FE-3}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	75		
hfe-4	DC Current Gain	Ic= 15A ; Vce= 5V	12		

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