

SPTECH Silicon NPN Power Transistor

2SC2517

DESCRIPTION

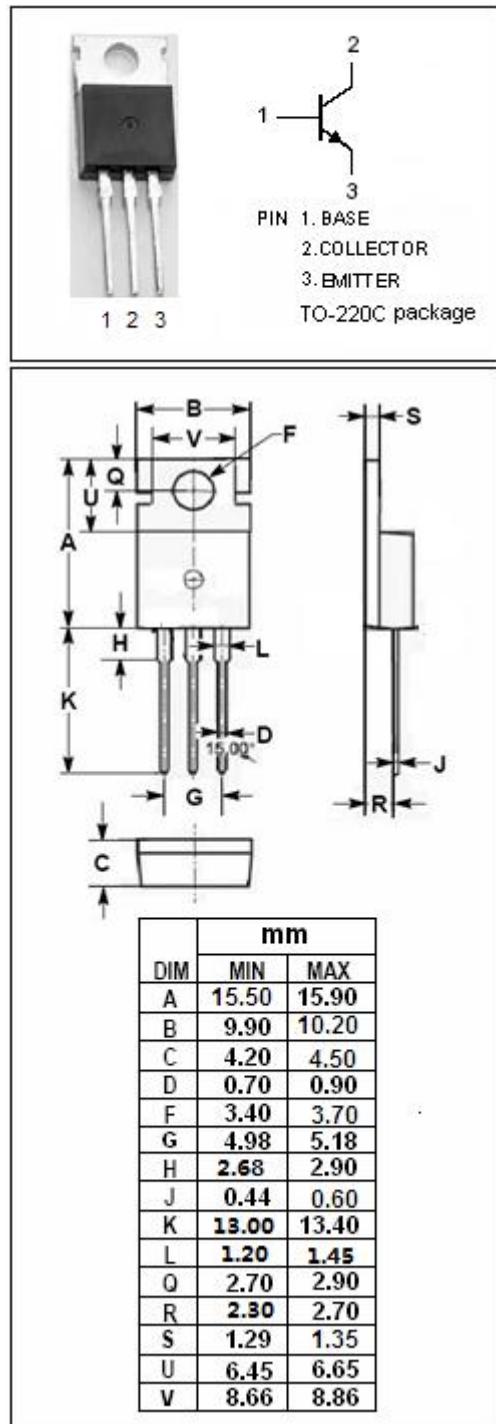
- Low Collector Saturation Voltage
- Fast Switching Speed

APPLICATIONS

- Designed for high-speed switching, and is ideal for use as a driver in devices such as switching regulators, DC/DC converters, and high frequency power amplifiers.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	12	V
I_c	Collector Current-Continuous	5	A
I_{CM}	Collector Current-Peak	10	A
I_B	Base Current-Continuous	2.5	A
P_c	Total Power Dissipation @ $T_c=25^\circ\text{C}$	30	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



SPTECH Product Specification

SPTECH Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3.0A; I _B = 0.3A		0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3.0A; I _B = 0.3A		1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0		10	µ A
I _{CER}	Collector Cutoff Current	V _{CE} = 100V; R _{BE} = 51Ω, T _a =125°C		1.0	mA
I _{CEX}	Collector Cutoff Current	V _{CE} = 100V; V _{BE(off)} = -1.5V V _{CE} = 100V; V _{BE(off)} = -1.5V, T _a =125°C		10 1.0	µ A mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 10V; I _C =0		10	µ A
h _{FE-1}	DC Current Gain	I _C = 0.2A; V _{CE} = 5V	40		
h _{FE-2}	DC Current Gain	I _C = 2A; V _{CE} = 5V	40	200	

Switching times

t _{on}	Turn-on Time	I _C = 3.0A, R _L = 17Ω, I _{B1} = -I _{B2} = 0.3A, V _{CC} ≈ 50V	0.5	µ s
t _{stg}	Storage Time		2.5	µ s
t _f	Fall Time		0.5	µ s

◆ h_{FE-2} Classifications

M	L	K
40-80	60-120	100-200

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