SPTECH Silicon NPN Power Transistor

2SC2334

DESCRIPTION

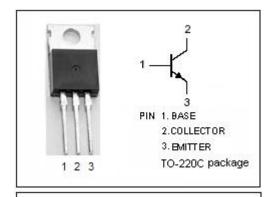
- Low Collector Saturation Voltage
- Fast Switching Speed
- Complement to Type 2SA1010

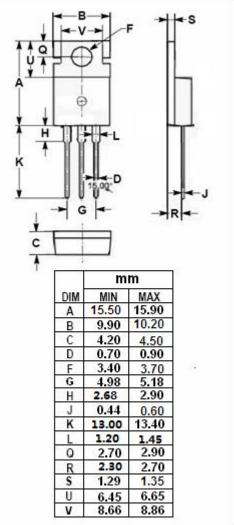
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

ADSOLUTE IVIAATIVUIVI KATINGS(Ta-25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	150	V			
V _{CEO}	Collector-Emitter Voltage	100	V			
V _{EBO}	Emitter-Base Voltage	7.0	V			
Ic	Collector Current-Continuous	7.0	А			
Ісм	Collector Current-Peak	15	А			
I _B	Base Current-Continuous	3.5	А			
Pc	Collector Power Dissipation @ T _a =25℃	1.5	W			
	Total Power Dissipation @ T _C =25℃	40				
TJ	Junction Temperature	150	$^{\circ}$ C			
T _{stg}	Storage Temperature Range -55~150 ℃		°C			





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0.5

μs

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 = 5.0A; I _B = 0.5A		0.6	V	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5.0A; I _B = 0.5A		1.5	V	
Ісво	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0		10	μА	
I _{CER}	Collector Cutoff Current	V _{CE} = 100V ; R _{BE} = 51 Ω ,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	μA mA	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		10	μА	
h _{FE-1}	DC Current Gain	I _C = 0.5A ; V _{CE} = 5V	40			
h _{FE-2}	DC Current Gain	I _C = 3.0A; V _{CE} = 5V	40	200		
h _{FE-3}	DC Current Gain	I _C = 5.0A ; V _{CE} = 5V	20			
Switching times						
t _{on}	Turn-on Time			0.5	μs	
t _{stg}	Storage Time	I _C = 5.0A ,R _L = 10 Ω , I _{B1} = -I _{B2} = 0.5A,V _{CC} ≈ 50V		1.5	μs	

♦ h_{FE-2} Classifications

 t_f

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

Fall Time

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