

BCW61B

PNP EPITAXIAL SILICON TRANSISTOR

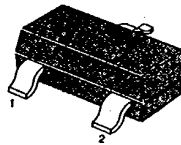
GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (T_a = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	32	V
Collector-Emitter Voltage	V _{CEO}	32	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Collector Current	I _C	100	mA
Collector Dissipation	P _C	350	mW
Storage Temperature	T _{stg}	150	°C

• Refer to MMBT5086 for graphs

SOT-23



1. Base 2. Emitter 3. Collector

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ELECTRICAL CHARACTERISTICS (T_a = 25°C)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 2mA, I _B = 0	32		V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = 1μA, I _C = 0	5		V
Collector Cutoff Current	I _{CES}	V _{CE} = 32V, V _{BE} = 0		20	nA
DC Current Gain	h _{FE}	V _{CE} = 5V, I _C = 10μA	20		
		V _{CE} = 5V, I _C = 2mA	140	310	
		V _{CE} = 1V, I _C = 50mA	80		
Collector-Emitter Saturation Voltage	V _{CE (sat)}	I _C = 10mA, I _B = 0.25mA		0.25	V
Base-Emitter Saturation Voltage	V _{BE (sat)}	I _C = 50mA, I _B = 1.25mA		0.55	V
		I _C = 10mA, I _B = 0.25mA	0.6	0.85	V
Base-Emitter On Voltage	V _{BE (on)}	I _C = 50mA, I _B = 1.25mA	0.68	1.05	V
		I _C = 2mA, V _{CE} = 5V	0.6	0.75	V
Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0 f = 1MHz		6	pF
Noise Figure	NF	I _C = 0.2mA, V _{CE} = 5V R _S = 2KΩ, f = 1KHz		6	dB
Turn On Time	t _{on}	I _C = 10mA, I _{B1} = 1mA		150	ns
Turn Off Time	t _{off}	I _{B2} = 1mA, V _{BB} = 3.6V R _L = 990Ω		800	ns

Marking

