

Micro Commercial Components

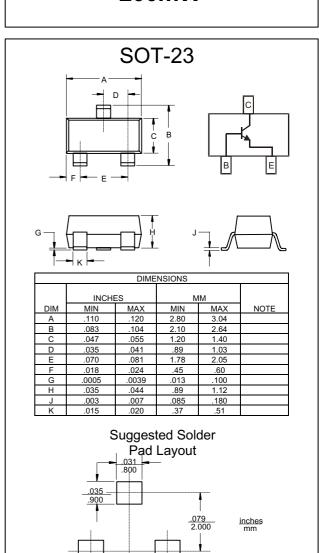


Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

BCW66F

NPN Small Signal Transistor 200mW



Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideally Suited for Automatic Insertion
- 150°C Junction Temperature
- Low Current, Low Voltage
- Epitaxial Planar Die Construction
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

Case: SOT-23

Terminals: Solderable per MIL-STD-202, Method 208

Marking: EF

Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	45	V
Collector-Base Voltage	V_{CBO}	75	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current(DC)	I _C	800	mA
Collector Power Dissipation	P_d	200	mW
Thermal Resistance, Junction to Ambient Air	R _θ JA	625	°C/W
Operating & Storage Temperature	T_{j} , T_{STG}	-55~150	°C

1 of 3

BCW66F



Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Min.	TYP.	Max.	Unit
DC Current Gain ⁽¹⁾ at VCE = 10V, IC = 100μ A at VCE = 1V, IC = $10m$ A at VCE = 1V, IC = $100m$ A at VCE = 2V, IC = $500m$ A	hfe hfe hfe hfe	35 75 100 35		_ _ _ 250	- - -
Collector-Emitter Saturation Voltage at Ic = 100mA, IB = 10mA at Ic = 500mA, IB = 50mA	VCEsat VCEsat	- -	_ _	0.3 0.7	V
Base-Emitter Saturation Voltage at I _C = 500mA, I _B = 50mA	VBEsat	_	_	2	V
Collector-Emitter Breakdown Voltage at I _C = 10mA, I _B = 0	V(BR)CEO	45	_	_	V
Collector-Base Breakdown Voltage at $I_C = 10\mu A$, $I_B = 0$	V(BR)CBO	75	_	_	V
Emitter-Base Breakdown Voltage at $I_E = 10\mu A$, $I_C = 0$	V(BR)EBO	5	-	_	V
Collector-Base Cut-off Current at $V_{CB} = 45V$, $I_E = 0$	Ісво	_	_	20	nA
Emitter-Base Cut-off Current at VEB = 4V, IC = 0	lebo	_	_	20	nA
Gain-Bandwidth Product at VCE = 10V, IC = 20mA, f = 100MHz	fτ	100	_	_	MHz
Output Capacitance at VcB = 10V, I _E =0,f = 1MHz	Cob	_	_	12	pF
Input Capacitance at VEB = 0.5V,I _E =0, f = 1MHz	Cib	_	_	80	pF



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.