Low Power Bipolar Transistor multicomp





Features:

- · PNP Silicon Planar Epitaxial Transistors
- · General Purpose Audio Amplifier

Absolute Maximum Ratings:

Description	Symbol	BC477	Unit	
Collector Emitter Voltage	V _{CES}	90	V	
Collector-Emitter Voltage	V _{CEO}	80		
Emitter-Base Voltage	V _{EBO}	6		
Collector Current	I _C	150	mA	
Power Dissipation at T _a = 25°C	P _{tot}	0.3	W	
Power Dissipation at T _C = 25°C	P _{tot}	1.2		
Junction Temperature	T_J	200	00	
Storage Temperature Range	T _{stg}	-55°C to +200	°C	

Thermal Resistance

Junction to Case	R _{th (j-c)}	146	°C/W
Junction to Ambient	R _{th (j-a)}	485	C/VV







Electrical Characteristics: $(T_A = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Condition	Min.	Typical	Max.	Unit
Collector Cut off Current	I _{CES}	V _{CE} = 70V, V _{BE} = 0 Ta = 125°C			10	nA
	CES	V _{CE} = 70V, V _{BE} = 0	-			μΑ
Emitter Cut off Current	I _{EBO}	$V_{EB} = 4V, I_{C} = 0$			10	nA
O H	V _{CES}	$I_{C} = 10 \mu A, V_{BE} = 0$	90	-		
Collector-Emitter Voltage	V _{CEO}	$I_{C} = 5mA, I = 0$	80		-	
Emitter-Base Voltage	V _{EBO}	$I_{E} = 10 \mu A, I_{C} = 0$	6			
Collector Emitter Saturation Voltage	V _{CE (Sat)} *	I _C = 10mA, I _B = 0.5mA			0.25	.,
		I _C = 100mA, I _B = 5mA	-	0.3	-	V
Base Emitter On Voltage	V _{BE (on)} *	I _C = 2mA, V _{CE} = 5V	0.55		0.75	
D	V _{BE (Sat)} *	I _C = 10mA, I _B = 0.5mA		-	0.9	
Base Emitter Saturation Voltage		I _C = 100mA, I _B = 5mA	_	0.9	-	
DC Current	h _{FE} *	$I_{\rm C} = 10 \mu A, V_{\rm CE} = 5 V$	30		-	
		I _C = 2mA, V _{CE} = 5V	110	-	250	
		I _C = 10mA, V _{CE} = 5V	-	160	-	
Small Signal Current Gain		$I_C = 2mA, V_{CE} = 5V,$ f = 1kHz	125	-	260	-
	h _{fe}	$I_C = 10$ mA, $V_{CE} = 5$ V, f = 20MHz	-	7.5	-	

Dynamic Characteristics

Collector Base Capacitance	Ccbo	I _E = 0, V _{CB} = 5V			6	pF
Emitter Base Capacitance	Cebo	$I_{\rm C} = 0, V_{\rm EB} = 0.5 V$			15	pF
Noise Figure	NF	$V_{CE} = 5V, I_{C} = 200 \mu A$ $Rg = 2k\Omega, f = 1kHz$ B = 200Hz	-	-	10	dB

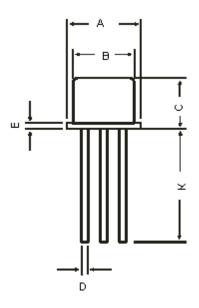
^{*}Pulsed: Pulse Duration = 300µs, Duty Cycle = 1%



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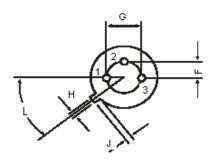


TO-18 Metal Can Package



Dim.	Min.	Max.	
Α	5.24	5.84	
В	4.52	4.97	
С	4.31	5.33	
D	0.4	0.53	
Е	-	0.76	
F	-	1.27	
G	-	2.97	
Н	0.91	1.17	
J	0.71	1.21	
K	12.7 -		
L	45°		

Dimensions: Millimetres



- 1. Emitter
- 2. Base
- 3. Collector

Part Number Table

Description	Part Number		
Transistor, PNP, TO-18	BC477		

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