

Boca Semiconductor Corp BSC

This transistors is primarily intended for use in high performance, low level, low noise amplifier applications

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н	100	UL	\cup \cup	IVIA		JIVI F	TA HI	163

DESCRIPTION	SYMBOL		VALUE		UNIT
Collector -Emitter Voltage	VCEO		60		V
Collector -Base Voltage	VCBO		60		V
Emitter -Base Voltage	VEBO		6.0		V
Collector Current Continuous	IC		50		mA
Power Dissipation @Ta=25 degC	PD		360		mW
Derate Above 25 deg C			2.06		mw/deg C
Power Dissipation @Tc=25 degC	PD		1.20		W
Derate Above 25 deg C			6.85		mw/deg C
Operating And Storage Junction	Tj, Tstg		-65 to +200		deg C
Temperature Range					
THERMAL RESISTANCE					
Junction to Case	Rth(j-c)		146		deg C/W
Junction to Ambient in Free Air	Rth(j-a) *		485		deg C/W
Lead Temperature	TL		300		deg C
1/16" from Case for 10 Seconds					
ELECTRICAL CHARACTERISTICS (Ta	=25 deg C U	nless Otherwise Specified)			
DESCRIPTION	SYMBOL	TEST CONDITION	Min	MAX	UNIT
Collector -Emitter Voltage	VCEO**	IC=10mA,IB=0	60	-	V
Collector -Base Voltage	VCBO	IC=10uA.IE=0	60	-	V
Emitter -Base Voltage	VEBO	IE=10uA, IC=-0	6.0	-	V
Collector-Cut off Current	ICBO	VCB=45V, IE=0	-	10	nA
		Ta=150 deg C			
		VCB=45V, IE=0	-	10	uA
Emitter-Cut off Current	IEBO	VEB=5V, IC=0	-	10	nA
Collector Emitter Saturation Voltage	VCE(Sat)	IC=1mA,IB=0.1mA	-	0.35	V
Base Emitter on Voltage	VBE(on)	IC=0.1mA, VCE=5V	0.5	0.7	V

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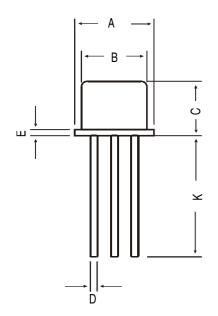
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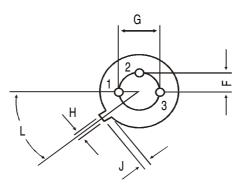
ELECTRICAL CHARACTERISTICS (Ta		2N2484			
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
DC Current Gain	hFE	IC=1uA, VCE=5V	30	-	
		IC=10uA, VCE=5V	100	500	
		Ta=55 deg C			
		IC=10uA, VCE=5V	20	-	
		IC=100uA, VCE=5V	175	-	
		IC=500uA, VCE=5V	200	-	
		IC=1mA, VCE=5V	250	-	
		IC=10mA,VCE=5V**	-	800	
Dynamic Characteristics	ft	VCE 5V IC 0.05mA	15		MHz
Transition Frequency	IL	VCE=5V,IC=0.05mA f=5MHz	15	-	IVI□Z
			00		N 41 1—
		VCE=5V,IC=0.5mA, f=30MHz	60	-	MHz
Out-put Capacitance	Cobo	VCB=5V, IE=0	-	6.0	pF
		f=140kHz			·
In-put Capacitance	Cibo	VEB=0.5V, IC=0	-	6.0	pF
		f=140kHz			
Noise Figure	NF	VCE=5V, IC=10uA			
		Rs=10kohms			
		f=100Hz, BW'=20Hz	-	10	dB
		f=1kHz, BW=200Hz	-	3.0	dB
		f=10kHz, BW=2kHz	-	2.0	dB
		f=10Hz to 15.7kHz,BW=15.7KHz		3.0	dB
Small Signal Characteristics (@ f=1kl	Iz unless oth	erwise specified)			
Input Impedence	hie	IC=1mA, VCE=5V	3.5	24	kohms
		,	3.3		-4
Voltage Feedback Ratio	hre	IC=1mA, VCE=5V	-	800	x10
Small Signal Current Gain	hfe	IC=1mA, VCE=5V	150	900	
Output Admittance	hoe	IC=1mA, VCE=5V	-	40	umhos

^{*}Rth(j-a) is measured with the device soldered into a typical printed Circuit board.

^{**}Pulse Test: Pulse Width=300us, Duty Cycle=2%

TO-18 Metal Can Package





	DIM	MIN	MAX	
	Α	5.24	5.84	
	В	4.52	4.97	
	C	4.31	5.33	
	D	0.40	0.53	
	Е	1	0.76	
Ē.	F	ı	1.27	
iπ	G	ı	2.97	
Suc	Н	0.91	1.17	
nsic	J	0.71	1.21	
All diminsions in mm.	K	12.70	_	
¥	L	45 DEG		



PIN CONFIGURATION

- 2. BASE 3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-18	1K/polybag	350 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	34 kgs

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