NPN SILICON PLANAR TRANSISTOR

2N5179 TO-72

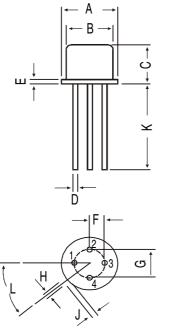


Boca Semiconductor Corp BSC

Low Noise Tuned Amplifiers.

ABSOLUTE MAXIMUM RATINGS							
DESCRIPTION	SYMBOL		VALUE			UNIT	
Collector -Base Voltage	VCBO		20			V	
Collector -Emitter Voltage	VCEO		12			V	
Emitter Base Voltage	VEBO		2.5			V	
Collector Current	IC		50			mA	
Power Dissipation @ Ta=25 deg C	Ptot		200			mW	
@ Tc=25 deg C			300			mW	
Operating And Storage Junction	Tj, Tstg	-(65 to +20	00		deg C	
Temperature Range							
Thermal Resistance							
Junction to Case	Rth (j-c)		583			deg C/W	
Junction to Ambient	Rth (j-a)		875			deg C/W	
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)							
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT	
Collector Cut off Current	ICBO	VCB=15V, IE=0	-	-	20	nA	
		Ta=150 deg C					
		VCB=15V, IE=0	-	-	1.0	uA	
Collector -Base Voltage	VCBO	IC=1uA, IE=0	20	-	-	V	
Collector -Emitter Voltage	· · /	IC=3mA, IB=0	12	-	-	V	
Emitter Base Voltage	VEBO	IE=10uA, IC=0	2.5	-	-	V	
Collector Emitter Saturation Voltage	VCE(Sat)	IC=10mA, IB=1mA	-	-	0.40	V	
Base Emitter Saturation Voltage	VBE(Sat)	IC=10mA, IB=1mA	-	-	1.0	V	
DC Current Gain	hFE	IC=3mA,VCE=1V	25	-	250		
DYNAMIC CHARACTERISTICS							
Forward Current Transfer Ratio	hfe	IC=2mA,VCE=6V,f=1kHz	25	-	300		
	ft	IC=5mA,VCE=6V,f=100MHz	900	-	2000	MHz	
Out-Put Capacitance	Cob	VCB=10V, IE=0, f=1MHz	-	-	1.0	pF	
In-Put Capacitance	Cib	VEB=0.5V, IC=0, f=1MHz	-	-	2.0	pF	
Collector Base Time Constant	rbb' Cb' c	IC=2mA,VCE=6V,f=31.9MHz	3.0	-	14	ps	
Small-Signal Power Gain	Gp	IC=5mA,VCE=12V,f=200MHz	15	-	-	dB	
Common Emitter Oscillator Power	Po	IE= -12mA, VCB=10V, f=	20	-	-	mW	
Output		>500MHz					

TO-72 Metal Can Package





	mensions in mm.
	⊒.
[°] 4	ns
	sio
	en
	E

	В	4.52	4.95	
	С	4.31	5.33	
	D	0.40	0.53	
	Е		0.76	
	F	1.14	1.39	
mm	G	2.28	2.97	
All dimensions in mm.	Н	0.91	1.17	
Isior	J	0.71	1.22	
imel	K	12.70	_	
All d	L	12 DEG	48 DEG	

MIN.

5.24

MAX.

5.84

DIM

А

PIN CONFIGURATION

- 1. EMITTER
- 2. BASE
- 3. COLLECTOR
- 4. CASE

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-72	1 K/Polybag	325 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	32 kgs

Notes