PNP SILICON PLANAR TRANSISTOR

2N4037

2N4036 TO-39



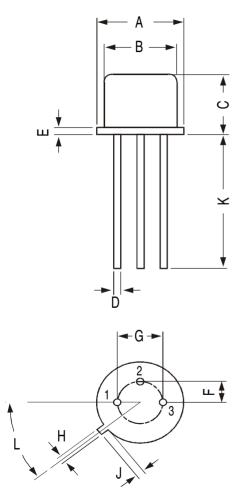
Boca Semiconductor Corp. BSC

General Purpose Transistor

ABSOLUTE MAXIMUM RATINGS DESCRIPTION SYMBOL

DESCRIPTION	SYMBOL	VALUE				UNIT
Collector -Emitter Voltage	VCEO	65				V
Collector -Base Voltage	VCBO	90				V
Emitter Base Voltage	VEBO	7.0				V
Base Current	IB	0.5				А
Collector Current -Continuous	IC	1.0				А
Power Dissipation @ Tc=25 deg C	PD	5.0				W
Linear Derating Factor		28.6				mW/deg C
Power Dissipation @ Ta=25 deg C	PD	1.0				W
Linear Derating Factor		5.72				mW/deg C
Operating & Storage Junction	Tj, Tstg	-65 to +200				deg C
Temperature Range						
Lead Temperature 1/16" from Case	TL	230				deg C
for 10 Seconds						
Thermal Resistance						
Junction to Case	Rth (j-c)	35				deg C/W
ELECTRICAL CHARACTERISTICS (
DESCRIPTION		TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Emitter Voltage	VCEO	IC=10mA, IB=0	65	-		V
Collector -Base Voltage	VCBO	IC=100uA, IE=0	90	-	-	V
Collector Cut off Current	ICEX	VCE=85V, VBE=1.5V	-	-	0.1	mA
	ICBO	VCB=90V, IE=0	-		1.0	uA
Emitter Cut off Current	IEBO	VBE=7V, IC=0	-		10	uA
DC Current Gain	hFE	0.1mA, VCE=10V	20	-	-	
		IC=150mA, VCE=2V	20		200	
		IC=150mA, VCE=10V	40	-	140	
		IC=500mA, VCE=10V	20		-	
Collector -Emitter (sat) Voltage	VCE(sat)	IC=150mA, IB=15mA	-		0.65	V
Base -Emitter (sat) Voltage	VBE(sat)	IC=150mA, IB=15mA	-		1.4	V
Small- Signal Characteristics						
Current Gain- High Frequency	Ihfel	IC=50mA,VCE=10V, f=20MHz	3.0	-	-	
Switching Characteristics						
Rise time	tr	IB1=15mA,IC=150mA, VCE=30V	_		70	ns
Sorage time	ts	IB2=15mA,IC=150mA, VCE=30V	-		600	ns
Fall time	tf	IB2=15mA,IC=150mA, VCE=30V	_		100	ns
	u	102-1011A, 10-10011A, 10E=301	-		100	119
Turn on time	+				110	22
Turn-on time	ton toff	IC=150mA, VCE=30V, IB1=IB2=	-		110 700	ns
Turn-off time	IOII	15mA	-		700	ns

http://www.bocasemi.com



TO-39 Metal Can Package

DIM MIN MAX А 8.50 9.39 В 7.74 8.50 С 6.09 6.60 D 0.40 0.53 Е 0.88 All dimensions are in mm F 2.41 2.66 G 4.82 5.33 Η 0.71 0.86 J 0.73 1.02 Κ 12.70 42 DEG L 48 DEG



PIN CONFIGURATION

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

Dacking Datail