

2SC4617

2SC4617 SOT-523 Silicon General Purpose Transistor (NPN)

General description

SOT-523 Silicon General Purpose Transistor (NPN)

FEATURES

- Low Cob = 2.0pF (Typical)
- Low Vce(sat) < 0.4V
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Weight: approx. 0.002g
-

Green Product

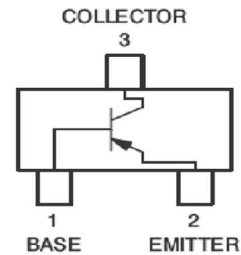


SOT-523

Absolute Maximum Ratings TA = 25°C unless otherwise (noted 2)

Symbol	Parameter	Value	Units
P _c	Collector Power Dissipation	150	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
T _J	Operating Junction Temperature	+150	°C
V _{CB0}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
I _c	Collector Current - Continuous	100	mA

Electrical Symbol:



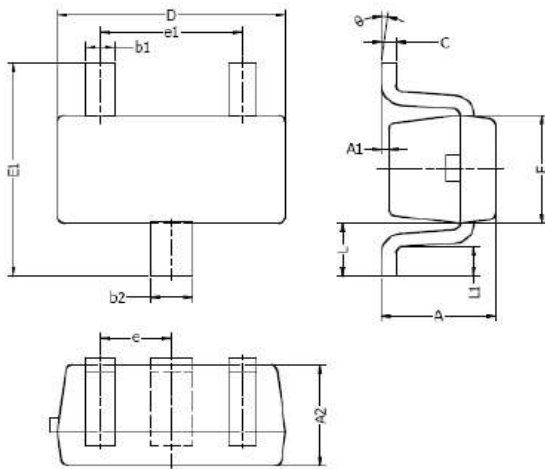
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _c =50uA, I _E =0A	50			Volts
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _c =1mA, I _B =0A	50			Volts
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E =50uA, I _c =0A	5			Volts
I _{cBO}	Collector Cut-off Current	V _{CB} =50V, I _E =0A			0.1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} =5V, I _c =0A			0.1	μA
h _{FE}	DC Current Gain	V _{CE} =6V, I _c =1mA	120		560	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c =50mA, I _B =5mA			0.4	Volts
f _T	Transition Frequency	V _{CE} =5V, I _c =10mA f=30MHz		280		MHz
C _{OB}	Collector Output Capacitance	V _{CB} =12V, I _E =0A, f=1MHz		2.0		pF

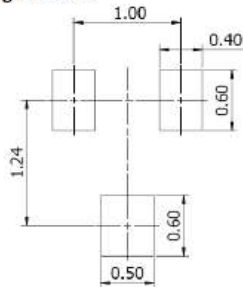
Classification of hFE & Marking Code:

Rank	Q	R	S
Range	120 - 270	180 - 390	270 - 560
Marking	BQ	BR	BS

SOT-523 PACKAGE OUTLINE



Typical Soldering Pattern:



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.70	0.90	0.028	0.035
A1	0.00	0.10	0.000	0.004
A2	0.70	0.80	0.028	0.031
b1	0.15	0.25	0.006	0.010
b2	0.25	0.35	0.010	0.014
c	0.10	0.20	0.004	0.008
D	1.50	1.70	0.059	0.067
E	0.70	0.90	0.028	0.035
E1	1.45	1.75	0.057	0.069
e	0.50 TYP.		0.020 TYP.	
e1	0.90	1.10	0.035	0.043
L	0.40 REF.		0.016 REF.	
L1	0.10	0.30	0.004	0.012
θ	0°	8°	0°	8°

NOTES:

1. Above package outline conforms to JEITA EAIJ ED-7500A SC-75A.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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