

2SA1774Q / 2SA1774R / 2SA1774S SOT-523 Silicon General Purpose Transistor (PNP)

General description

SOT-523 Silicon General Purpose Transistor (PNP)

FEATURES

- Low Cob = 3.5pF (Typical)
- Low Vce(sat) < 0.5V
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Weight: approx. 0.002g

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
Pc	Collector Power Dissipation	150	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C
V _{CBO}	V _{CBO} Collector-Base Voltage		V
V _{CEO}	Collector-Emitter Voltage	-50	٧
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current - Continuous	-100	mA

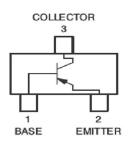
These ratings are limiting values above which the serviceability of the diode may be impaired.

Green Product



SOT-523

Electrical Symbol:



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

Symbol	Parameter		Test Condition	Limits			Unit
				Min	Тур	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
Ісво	Collector Cut-off Current		V _{CB} =-50V, I _E =0A			-0.1	μA
Ієво	Emitter Cut-off Current		V _{EB} =-5V, I _C =0A			-0.1	μA
		2SA1774Q	V _{CE} =-6V, I _C =-1mA	120		270	
hfe	DC Current Gain	2SA1774R	V _{CE} =-6V, I _C =-1mA	180		390	
		2SA1774S	V _{CE} =-6V, I _C =-1mA	270		560	
VCE(sat)	Collector-Emitter Saturation	on Voltage	I _C =-50mA, I _B =-5mA			-0.5	Volts
V BE(sat)	Base-Emitter Saturation Voltage		I _C =-50mA, I _B =-5mA			-1.2	Volts

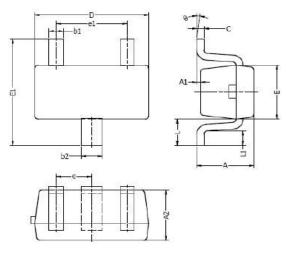


Symbol	Parameter	Test Condition	Limits			Unit
Cy			Min	Тур	Max	
f⊤	Transition Frequency	V _{CE} =-5V, I _C =-10mA f=30MHz		230		MHz
Сов	Collector Output Capacitance	V _{CB} =-12V, I _E =0A, f=1MHz		3.5		pF

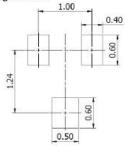
Classification of hFE & Marking Code:

Rank	2SA1774Q	2SA1774R	2SA1774S
h _{FE} Range Classification of h _{FE}	120 - 270	180 - 390	270 - 560
Marking	FQ	FR	FS

SOT-523 PACKAGE OUTLINE



Typical Soldering Patte	attern:	
	-	



DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
Α	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	
С	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	
е	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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