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Micro Commercial Components



Micro Commercial Components  
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**2SA1774-Q**  
**2SA1774-R**  
**2SA1774-S**

## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Package
- Mounting: any position
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @  $T_a = 25^\circ\text{C}$  (unless otherwise noted)

Symbol	Parameter	Value	Unit
$I_C$	Collector Current	-0.15	A
$P_D$	Total Device Dissipation	0.15	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

Electrical Characteristics @  $25^\circ\text{C}$  Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)}\text{CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=1\text{mA DC}, I_E=0$ )	-50		V
$V_{(BR)}\text{CBO}$	Collector-Base Breakdown Voltage ( $I_C=-50\text{uA DC}, I_E=0$ )	-60		V
$V_{(BR)}\text{EBO}$	Collector-Base Breakdown Voltage ( $I_E=-50\text{uA DC}, I_C=0$ )	-6.0		V
$I_{CBO}$	Collector-Base Cutoff Current ( $V_{CB}=-60\text{V DC}, I_E=0$ )		-0.1	$\mu\text{A DC}$
$I_{EBO}$	Emitter-Base Cutoff Current ( $V_{EB}=-6.0\text{V DC}, I_C=0$ )		-0.1	$\mu\text{A DC}$

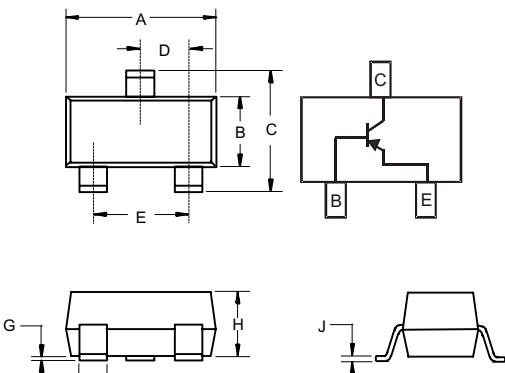
**ON CHARACTERISTICS**

$H_{FE}$	DC Current Gain ( $I_C=1.0\text{mA DC}, V_{CE}=-6.0\text{V DC}$ )	120	560	
$V_{CE(\text{sat})}$	Collector-Emitter Saturation Voltage ( $I_C=5.0\text{mA DC}, I_B=5.0\text{mA DC}$ )		-0.5	V DC
$F_T$	Transition Frequency ( $V_{CE}=-12\text{V DC}, I_C=2\text{mA DC}, f=30\text{MHz}$ )	140(Typ)		MHZ
$C_{ob}$	Collector Output Capacitance ( $V_{CB}=-12\text{V DC}, I_C=0\text{mA DC}, f=1\text{MHz}$ )		5	PF

**CLASSIFICATION OF  $h_{FE}$** 

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

**PNP Silicon**  
**Epitaxial Transistor**

**SOT-523**

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	.75	.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

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TM

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## Ordering Information :

Device	Packing
Part Number-TP	Tape & Reel; 3 Kpcs/ Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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