



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 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
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ T<sub>a</sub> = 25℃(unless otherwise noted)

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	OFF CHARACTERISTICS			
V(BR)CEO	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc,I <sub>B</sub> =0)	-50		V
V(BR)CBO	Collector-Base Breakdown Voltage (I <sub>C</sub> =-50uAdc,I <sub>E</sub> =0)	-60		V
V(BR)EBO	Collector-Base Breakdown Voltage (I <sub>E</sub> =-50uAdc,I <sub>C</sub> =0)	-6.0		V
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =-60Vdc, I <sub>E</sub> =0)		-0.1	μAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =-6.0Vdc, I <sub>C</sub> =0)		-0.1	uAdc

ON CHARACTERISTICS	6
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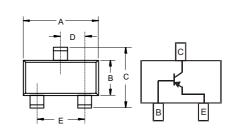
$H_{FE}$	DC Current Gain (I <sub>C</sub> =-1.0mAdc, V <sub>CE</sub> =-6.0Vdc)	120	560	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-5.0mAdc, I <sub>B</sub> =-5.0mAdc)		-0.5	Vdc
F⊤	Transition Frequency (VCE=-12Vdc,IC=-2mAdc,f=30MHZ)	140(Typ)		MHZ
$C_{ob}$	Collector Output Capacitance (VCB=-12Vdc,IC=0Adc,f=1MHZ)		5	PF

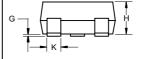
## CLASSIFICATION OF hee

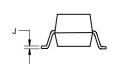
Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

# PNP Silicon Epitaxial Transistor









DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
O	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nom	inal	
Е	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	010	014	25	35	



#### **Micro Commercial Components**

## **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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