

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Max

Unit

Phone: (818) 701-4933 Fax: (818) 701-4939 2SA1577-P 2SA1577-Q 2SA1577-R

## **Features**

Symbol

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Ideally Suited for Automatic Insertion
- Untral Small Surface Mount Package
- Pb-Free Package are Vailable
- 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
lc	Collector Current	-0.5	А
P <sub>D</sub>	Total Device Dissipation	0.2	W
TJ	Junction Temperature	150 °C	
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	$^{\circ}\!\mathbb{C}$

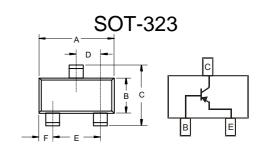
Electrical Characteristics @ 25°C Unless Otherwise Specified Parameter

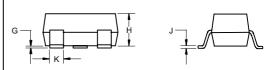
OFF CHARACTERISTICS				
V(BR)CEO	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc,I <sub>B</sub> =0)	-32		V
V(BR)CBO	Collector-Base Breakdown Voltage (I <sub>C</sub> =-100µAdc,I <sub>E</sub> =0)	-40		V
V(BR)EBO	Collector-Base Breakdown Voltage (I <sub>E</sub> =-100µAdc,I <sub>C</sub> =0)	-5.0		V
І <sub>СВО</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =-20Vdc, I <sub>E</sub> =0)		-1	μAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =4.0Vdc, I <sub>C</sub> =0)		-1	μAdc
ON CHARACTERISTICS				
hfe	DC Current Gain (I <sub>C</sub> =-10mAdc, V <sub>CE</sub> =-3.0Vdc)	82	390	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-0.1Adc, I <sub>B</sub> =-0.01Adc)		-0.4	Vdc
f⊤	Transition Frequency (VCE=-5Vdc,IC=-20mAdc,f=100MHZ)		200(typ)	MHZ
Cob	Collector Output Capacitance (VCB=-10Vdc,IE=0,f=1MHZ)		7(typ)	PF

#### CLASSIFICATION OF he

Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	HP	HQ	HR

## **PNP Gneral Purpose Transistors**





DIMENSIONS					
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
С	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
Η	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

# Suggested Solder Pad Layout 0.70 0.90 1.90 mm 0.65



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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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