



Micro Commercial Components



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2SA1577-P
2SA1577-Q
2SA1577-R

Features

- 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

PNP
Gneral Purpose
Transistors

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

Symbol	Parameter	Value	Unit
I_C	Collector Current	-0.5	A
P_D	Total Device Dissipation	0.2	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

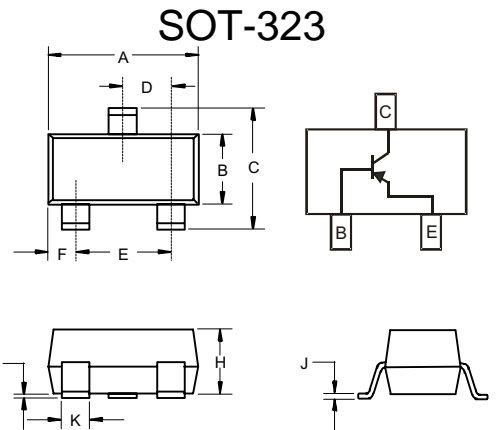
Symbol	Parameter	Min	Max	Unit
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -1\text{mA}, I_B = 0$)	-32		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu\text{A}, I_E = 0$)	-40		V
$V_{(BR)EBO}$	Collector-Base Breakdown Voltage ($I_E = -100\mu\text{A}, I_C = 0$)	-5.0		V
I_{CBO}	Collector-Base Cutoff Current ($V_{CB} = -20\text{Vdc}, I_E = 0$)		-1	μA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB} = 4.0\text{Vdc}, I_C = 0$)		-1	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C = -10\text{mA}, V_{CE} = -3.0\text{Vdc}$)	82	390	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -0.1\text{A}, I_B = -0.01\text{A}$)		-0.4	Vdc
f_T	Transition Frequency ($V_{CE} = -5\text{Vdc}, I_C = -20\text{mA}, f = 100\text{MHZ}$)		200(typ)	MHZ
C_{ob}	Collector Output Capacitance ($V_{CB} = -10\text{Vdc}, I_E = 0, f = 1\text{MHZ}$)		7(typ)	PF

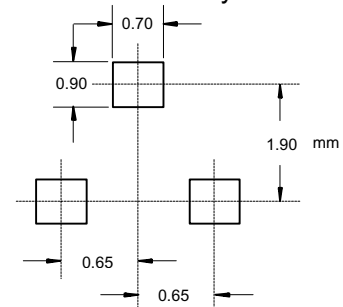
CLASSIFICATION OF h_{FE}

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



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

Suggested Solder Pad Layout





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Ordering Information :

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

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Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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