

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Max

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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
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ T _a = 25℃(unless otherwise noted)			
Symbol	Parameter	Value	Unit
Ic	Collector Current	-0.5	Α
P _D	Total Device Dissipation	0.2	W
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{STG}	Storage Temperature Range	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

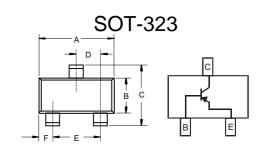
Symbol Parameter Min

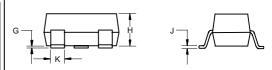
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OFF CHARACTERISTICS				
V(BR)CEO	Collector-Emitter Breakdown Voltage (I _C =-1mAdc,I _B =0)	-32		٧
V(BR)CBO	Collector-Base Breakdown Voltage (I _C =-100µAdc,I _E =0)	-40		>
V(BR)EBO	Collector-Base Breakdown Voltage (I _E =-100µAdc,I _C =0)	-5.0		V
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =-20Vdc, I _E =0)		-1	μAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		-1	μAdc
ON CHARACTERISTICS				
hfe	DC Current Gain (I _C =-10mAdc, V _{CE} =-3.0Vdc)	82	390	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _C =-0.1Adc, I _B =-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					
	INC	HES	М	М	
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		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
Н	.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



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Ordering Information:

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

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

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