

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SA1576A-Q 2SA1576A-R 2SA1576A-S

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Excellent h_{FE} Linearity
- Complementary to 2SC4081
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{CBO}	Collector-Base Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current	-150	mA
Pc	Collector power dissipation	200	mW
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ 25γ Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector Cutoff Current (V _{CB} =-60Vdc)			-100	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-6.0Vdc)			-100	nAdc

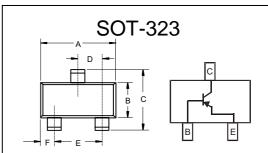
ON CHARACTERISTICS

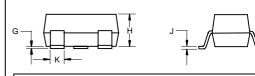
BV _{CBO}	Collector-base breakdown voltage (I_C =-50 μ Adc)	-60	-	-	Vdc
BV _{CEO}	Collector-emitter breakdown voltage (b=-1mAdc)	-50			Vdc
BV _{EBO}	Emitter-base breakdown voltage (I _E =-50μAdc)	-6			Vdc
h _{FE}	DC Current Gain (I _C =-1mAdc, V _{CE} =-6.0Vdc)	120	1	560	
$V_{CE(sat)}$	Collector Saturation Voltage (I _c =-50mAdc, I _B =-5.0mAdc)			-0.5	Vdc
C _{ob}	Output Capacitance (V _{CB} =-12.0Vdc, I _E =0, f=1.0MHz)		5.0		pF
f _⊤	Gain Bandwidth product (V _{CE} =-12Vdc, I _E =2mAdc,f=30MHz)		100	-	MHz

he classification

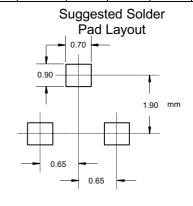
IIIE OLAGOII ION ION					
Rank	Q	R	S		
h _{FE}	120~270	180~390	270~560		
Marking	FQ	FR	FS		

PNP Silicon Epitaxial 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	
Н	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	





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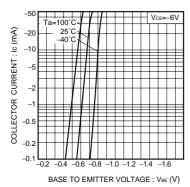


Fig.1 Grounded emitter propagation characteristics

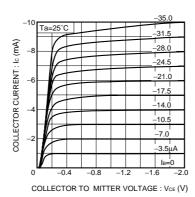


Fig.2 Grounded emitter output characteristics (I)

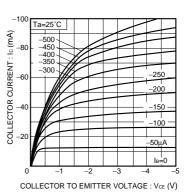


Fig.3 Grounded emitter output characteristics (II)

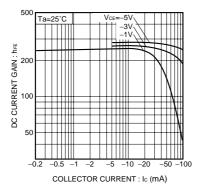


Fig.4 DC current gain vs. collector current (I)

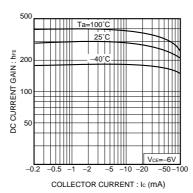


Fig.5 DC current gain vs. collector current (II)

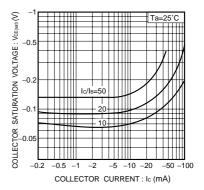


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

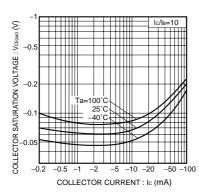


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

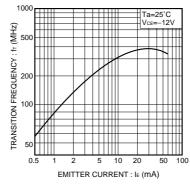


Fig.8 Gain bandwidth product vs. emitter current

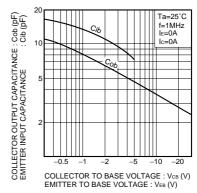


Fig.9 Collector output capacitance vs. collector-base voltage Emitter inputcapacitance vs. emitter-base voltage



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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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