



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SA1464-P 2SA1464-Q 2SA1464-R

Features

- High fT: fT=400MHZ
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ T_a = 25℃(unless otherwise noted)

maximum reasings © 13 - 20 Optimises existings include				
Symbol	Parameter	Value	Unit	
Ic	Collector Current	-0.5	Α	
P_D	Collector Power 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	TYPE	Max	Units	
OFF CHARA	OFF CHARACTERISTICS					
VCEO	Collector-Emitter Breakdown Voltage	-40			V	
VCBO	Collector-Base Breakdown Voltage	-60			V	
VEBO	Collector-Base Breakdown Voltage	-5.0			٧	
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =-40Vdc, I _E =0)			- 100	nAdc	
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-4.0Vdc, I _C =0)			- 100	nAdc	

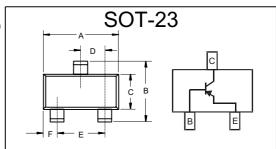
ON CHARACTERISTICS

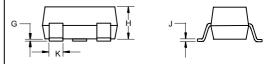
ON CHARACTERISTICS						
DC Current Gain (IC=-150mAdc, VCE=-2.0Vd		mAdc, VCE=-2.0Vdc)	75	140	300	
HFE	(IC=-500mAdc, VCE=-2.0Vdc)		20	50		
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage * (I _C =-500mAdc, I _B =-50mAdc)			-0.45	-0.75	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage * (I _c =-500mAdc, I _B =-50mAdc)			-1	-1.3	Vdc
$F_{\scriptscriptstyle T}$	Gain bandwidth product (VCE=-10Vdc,IE=20mAdc)		150	400		MHZ
C_{ob}	(VCB=-10Vdc,IE=0,f=1MHZ)			5	8	pF
Ton	Turn-on time	Vcc=-30V,			35	ns
Tstg	Storage time	Ic=150mA,			225	ns
Toff	Turn-off time	IB1=-IB2 =15mA			255	ns

CLASSIFICATION OF he

Rank	Р	Q	R
Range	75-150	100-200	150-300
Marking	Y12	Y13	Y14

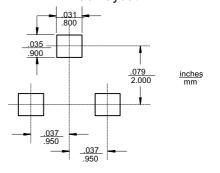
PNP Silicon Epitaxial Transistors





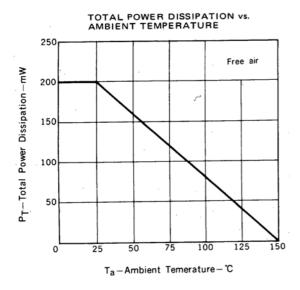
DIMENSIONS					
	INCHES		INCHES MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
O	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
Ŋ	.0005	.0039	.013	.100	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

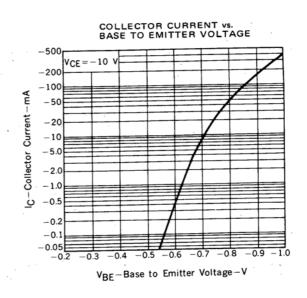
Suggested Solder Pad Layout

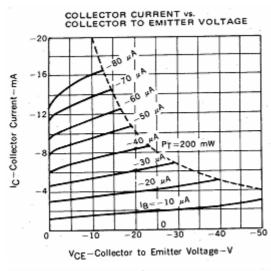


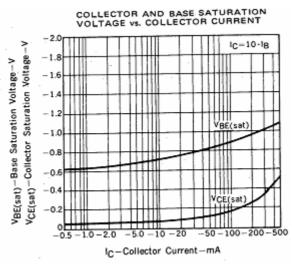


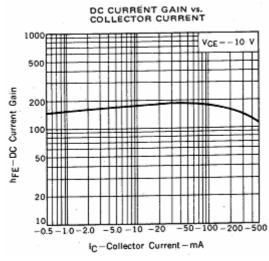
2SA1464 Typical Characteristics





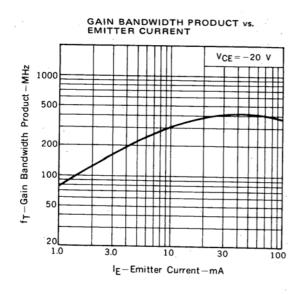


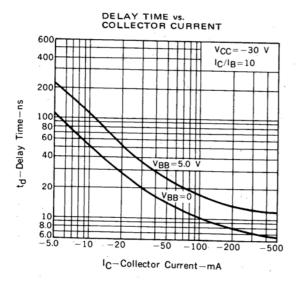


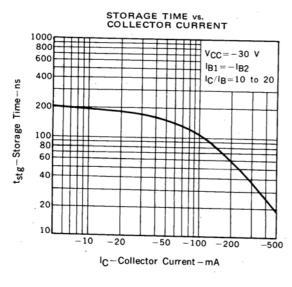


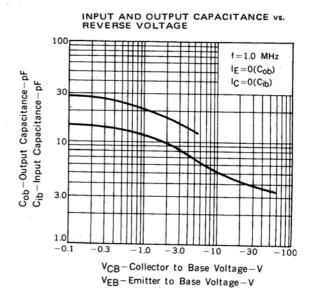


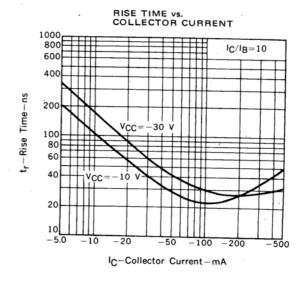
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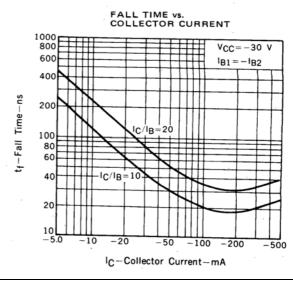














Ordering Information:

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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