

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Capable of 0.9Watts of Power Dissipation.
- Collector-current -1.0A
- Collector-base Voltage 120V
- Operating and storage junction temperature range: -55°C to +150°C
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Electrical Characteristics @ 25°C Unless Otherwise Specified
- Symbol Parameter Min Max Units

OFF CHARACTERISTICS

2SB647	Collector-Emitter Breakdown Voltage	Breakdown Voltage - 80		Vdc	
V _{(BR)CEO} 2SB647A	(⊱= -1mAdc, l _B =0)	- 100		Vdc	
V _{(BR)CBO} Collector-Base Breakdown Voltage		-120		Vdc	
	(l _c = -10µAdc, l _E =0)				
V _{(BR)EBO}	Emitter-Base Voltage	-5		Vdc	
	(l _E = -10µAdc, l _C =0)				
I _{CBO}	Collector Cutoff Current		-10	µAdc	
	(V _{CB} = -100Vdc, I _E =0)				

ON CHARACTERISTICS

h _{FE} ^{2SB647}	DC Current Gain	60	320		
$_{2SB647A}$ (c= -150mAdc, V _{CE} = -5Vdc)		60	200		
V _{CE(sat)}	Collector-Emitter Saturation Voltage				
(b= -500mAdc, b= -50mAdc)			-1	Vdc	

SMALL-SIGNAL CHARACTERISTICS

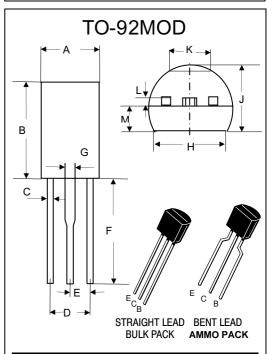
fT	ransistor Frequency				
	(l _c = -150mAdc, V _{CE} = -5Vdc)	140		MHz	
Cob	Output capacitance (I _E = 0, V _{CE} = -10Vdc, f=1 MHz)		20	pF	

CLASSIFICATION OF HEELD

Rank		В	С	D	
Range	2SB647	60-120	100-200	160-320	
	2SB647A	60-120	100-200		

2SB647(A)-B 2SB647(A)-C 2SB647-D

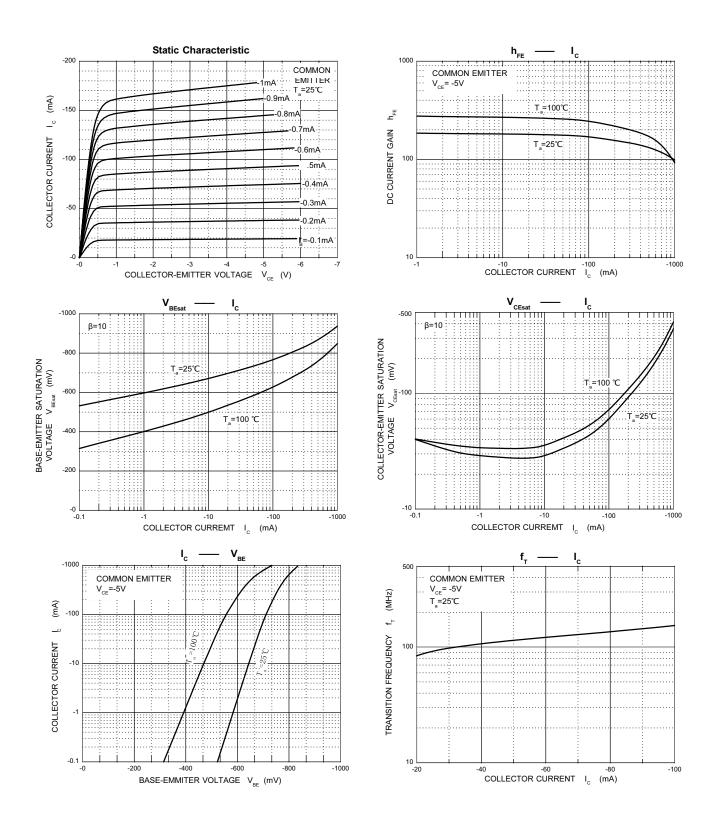
PNP Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MIN MAX	
Α	.228	.244	5.80	6.20	
В	.331	.346	8.40	8.80	
С	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
Н	.157		4.00	-	
J	.185	.201	4.70	5.10	
K		.063		1.60	
L	.016	.020	0.40	0.50	
М	.068	.080	1.73	2.03	
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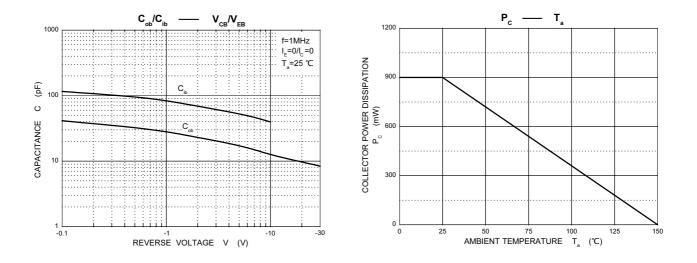
2SB647(A)





2SB647(A)







Ordering Information :

Device	Packing		
Part Number-AP	Ammo Packing: 20Kpcs/Carton		
Part Number-BP	Bulk: 50 Kpcs/Carton		

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

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