



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SB647(A)-B 2SB647(A)-C 2SB647-D

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 OURDANTEDICTION					

OFF CHARACTERISTICS

2SB647	Collector-Emitter Breakdown Voltage	- 80		Vdc
V _{(BR)CEO} 2SB647A	(⊱= -1mAdc, l _B =0)	- 100		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	-120		Vdc
	$(\xi = -10\mu Adc, \xi = 0)$			
$V_{(BR)EBO}$	V _{(BR)EBO} Emitter-Base Voltage			Vdc
	(೬= -10µAdc,Ե=0)			
I _{CBO}	Collector Cutoff Current		-10	μAdc
	(V _{CB} =-100Vdc, I _E =0)			

ON CHARACTERISTICS

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

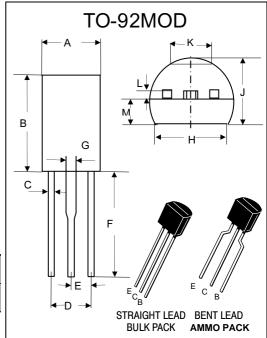
SMALL-SIGNAL CHARACTERISTICS

f⊤	Transistor Frequency				
	$(l_c = -150 \text{mAdc}, V_{CE} = -5 \text{Vdc})$	140		MHz	
Cob	Output capacitance			_	
	(I _E = 0, V _{CE} = -10Vdc, f=1 MHz)		20	pF	

CLASSIFICATION OF HFE (1)

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

PNP Silicon Plastic-Encapsulate Transistor

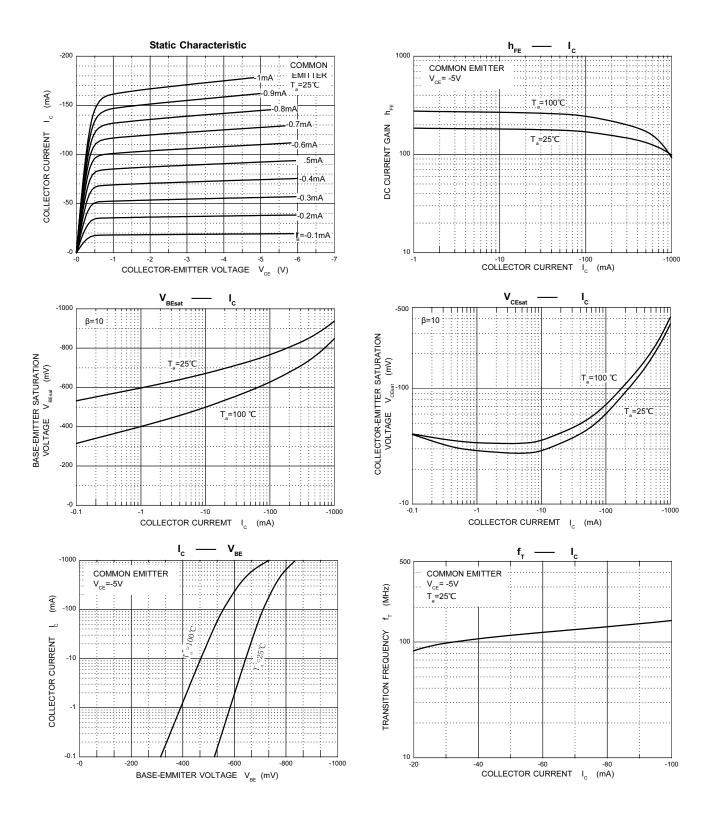


DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.228	.244	5.80	6.20	
В	.331	.346	8.40	8.80	
С	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
D	.173	.220	4.40	5.60	Bent Lead
Е	.059		1.50		Straight Lead
-	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
Н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

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

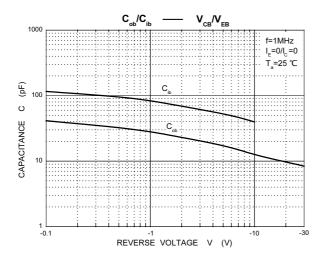


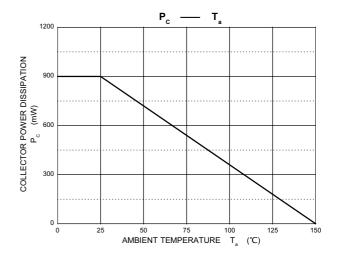
2SB647(A)





2SB647(A)







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Ordering Information:

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

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

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