



Micro Commercial Components



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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
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -1mA, I_B = 0$)	- 80		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -10uA, I_E = 0$)	-120		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage ($I_E = -10uA, I_C = 0$)	-5		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -100V, I_E = 0$)		-10	uAdc

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C = -150mA, V_{CE} = -5V$)	60	320	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -500mA, I_B = -50mA$)		-1	Vdc

SMALL-SIGNAL CHARACTERISTICS

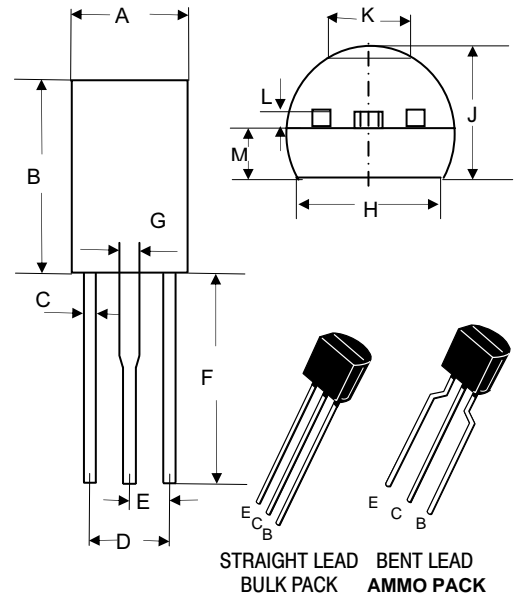
f_T	Transistor Frequency ($I_C = -150mA, V_{CE} = -5V$)	140		MHz
C_{ob}	Output capacitance ($I_E = 0, V_{CE} = -10V, f = 1MHz$)		20	pF

CLASSIFICATION OF h_{FE}

Rank	B	C	D
2SB647	60-120	100-200	160-320
2SB647A	60-120	100-200	

PNP Silicon Plastic-Encapsulate Transistor

TO-92MOD

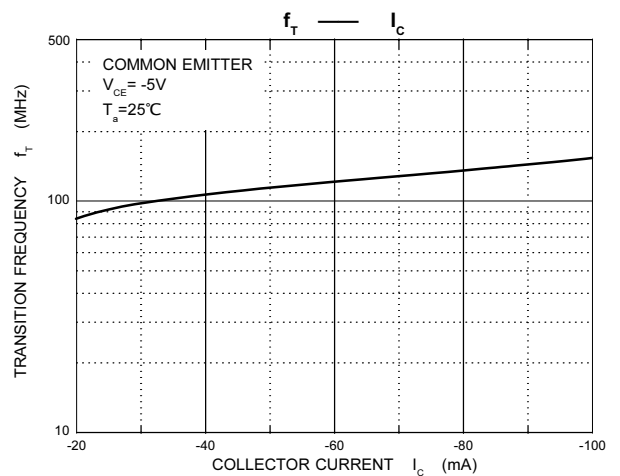
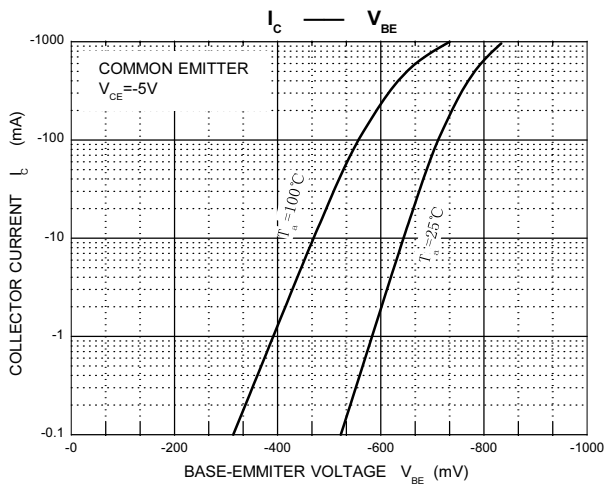
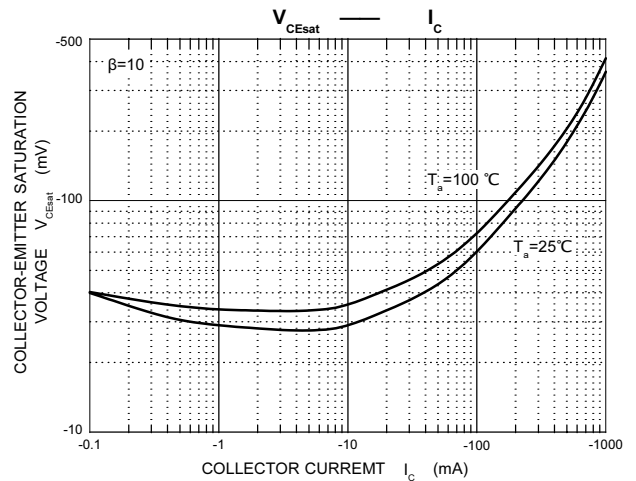
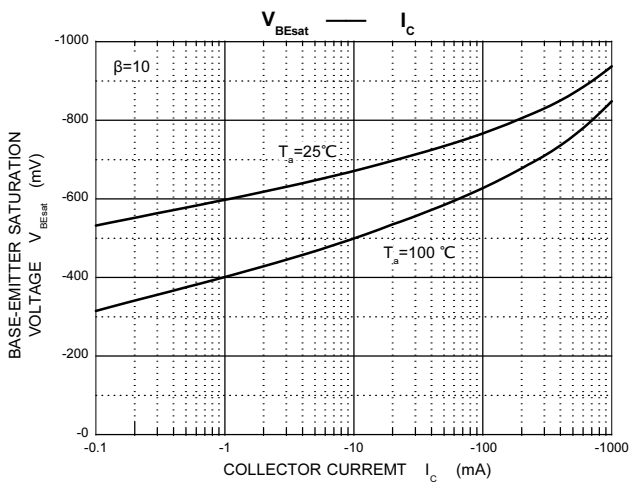
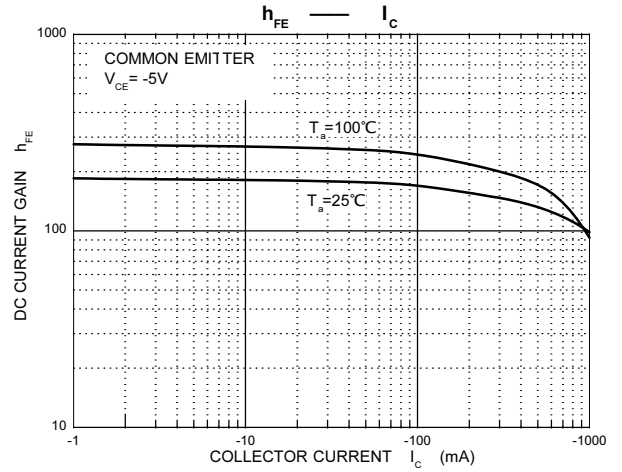
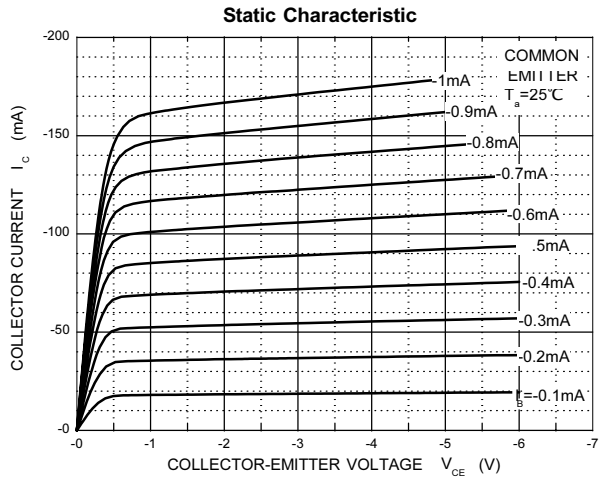


DIMENSIONS

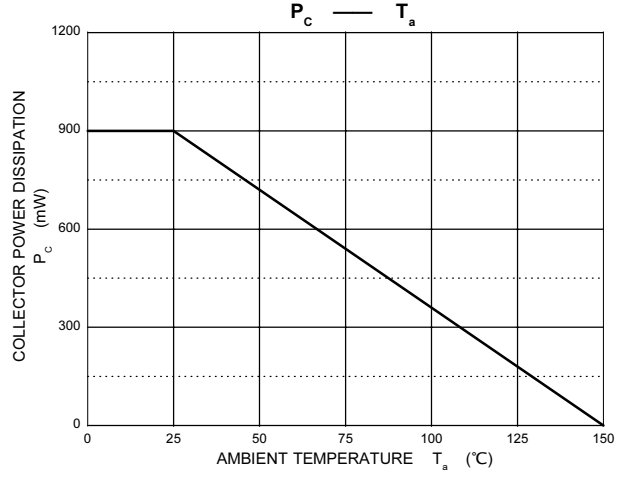
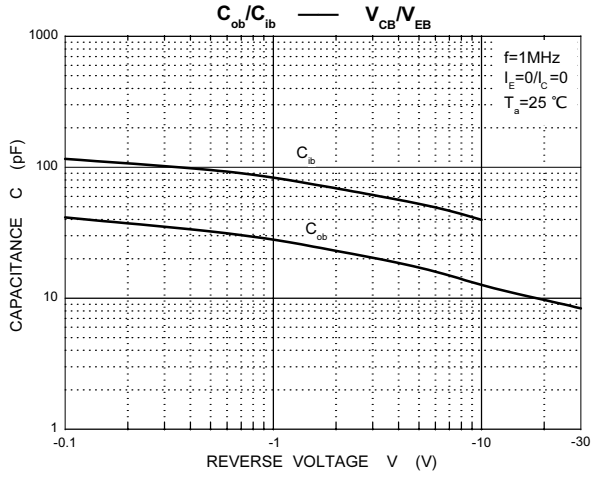
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.228	.244	5.80	6.20	
B	.331	.346	8.40	8.80	
C	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
H	.157	---	4.00	---	
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)



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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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