



Micro Commercial Components



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**2SD667(A)-B
 2SD667(A)-C
 2SD667(A)-D**

**NPN Silicon
 Plastic-Encapsulate
 Transistor**

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

$V_{(BR)CEO}$	2SD667	Collector-Emitter Breakdown Voltage ($I_C = 1\text{mA}, I_B = 0$)	80		Vdc
	2SD667A		100		Vdc
$V_{(BR)CBO}$		Collector-Base Breakdown Voltage ($I_C = 10\text{uAdc}, I_E = 0$)	120		Vdc
$V_{(BR)EBO}$		Emitter-Base Voltage ($I_E = 10\text{uAdc}, I_C = 0$)	5		Vdc
I_{CBO}		Collector Cutoff Current ($V_{CB} = 100\text{Vdc}, I_E = 0$)		10	uAdc

ON CHARACTERISTICS

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

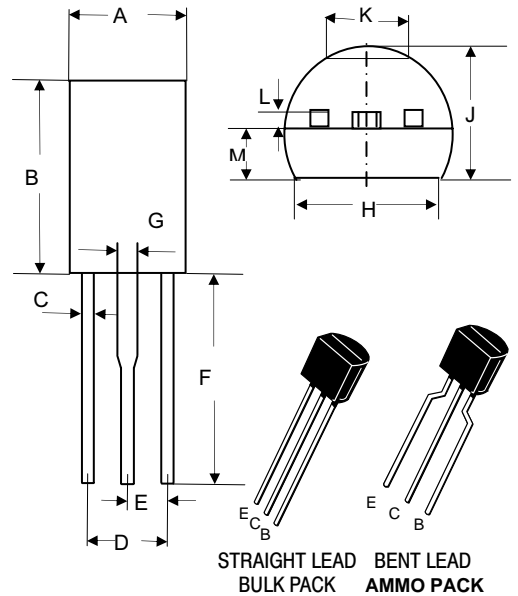
SMALL-SIGNAL CHARACTERISTICS

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

CLASSIFICATION OF h_{FE} (1)

Rank	B	C	D
Range	60-120	100-200	160-320

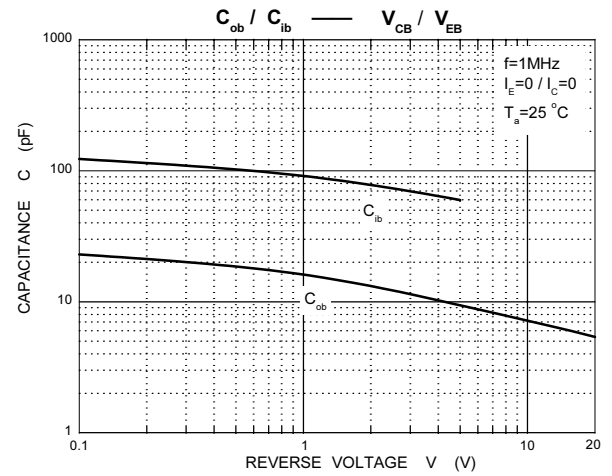
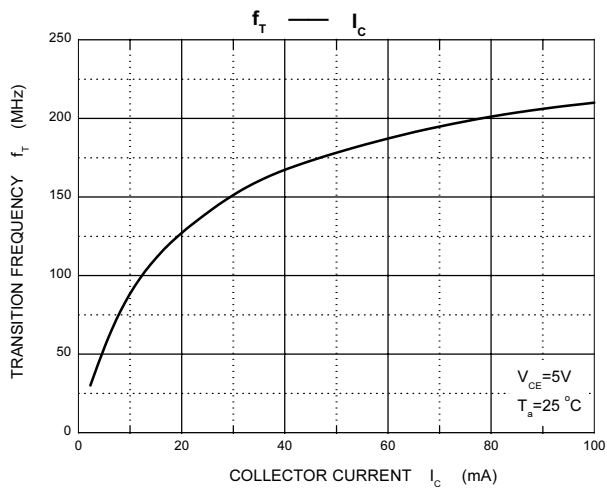
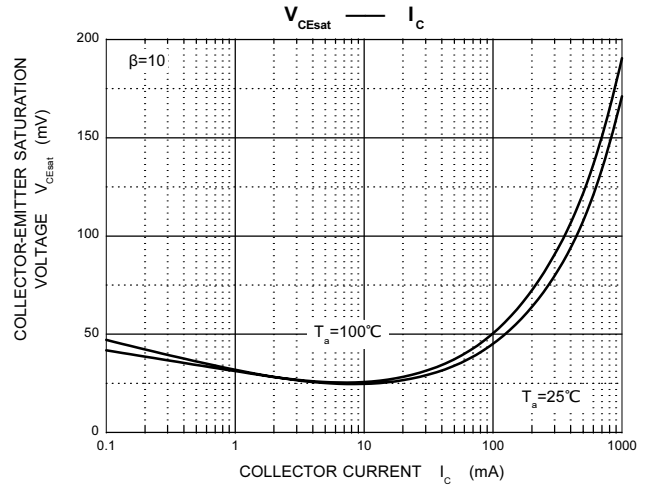
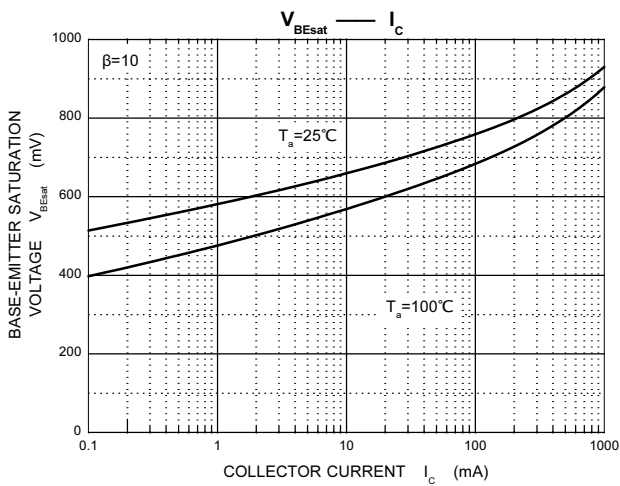
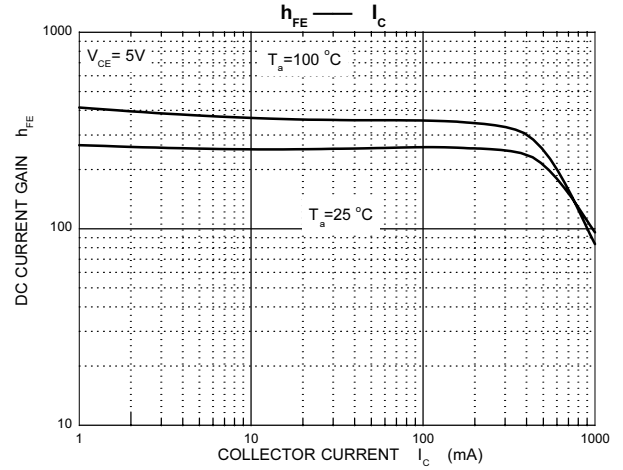
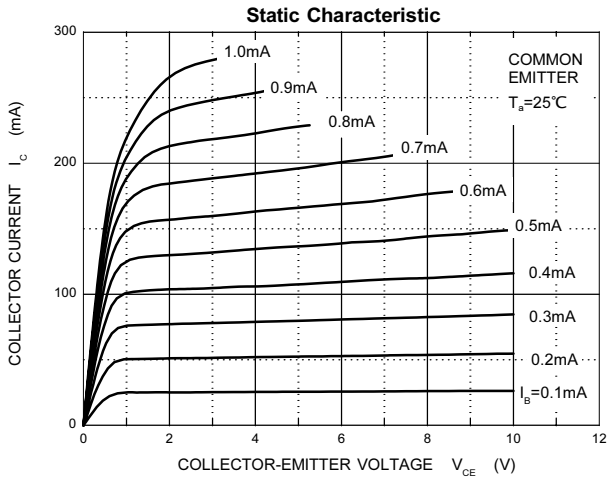
TO-92MOD



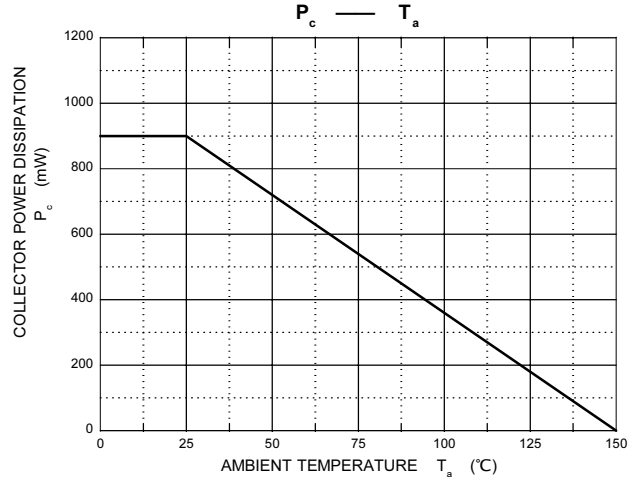
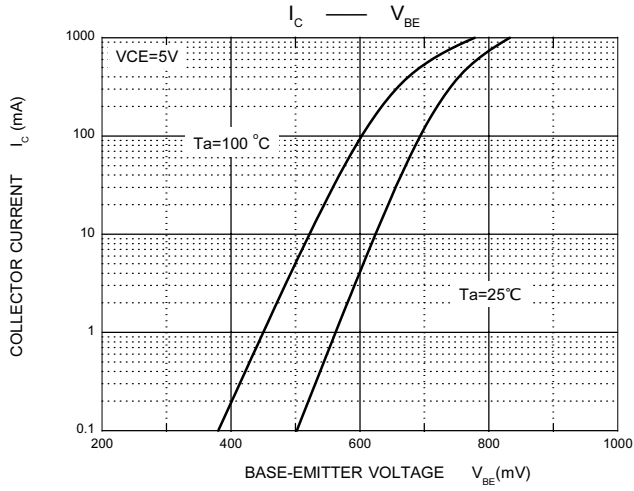
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.228	.244	5.80	6.20	
B	.331	.346	8.40	8.80	
C	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
H	.157	---	4.00	---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

2SD667(A)



2SD667(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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