

# **2SD667-D-AP Datasheet**



DiGi Electronics Part Number	2SD667-D-AP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	2SD667-D-AP
Description	TRANS NPN 80V 1A TO92MOD
Detailed Description	Bipolar (BJT) Transistor NPN 80 V 1 A 140MHz 900 m W Through Hole TO-92MOD

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Tel: +00 852-30501935

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### Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SD667-D-AP	Micro Commercial Co
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	1 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
80 V	1V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
10μΑ (ICBO)	160 @ 150mA, 5V
Power - Max:	Frequency - Transition:
900 mW	140MHz
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 Long Body (Formed Leads)	TO-92MOD
Base Product Number:	
2SD667	

### **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8541.21.0075



**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**

2SD667	Collector-Emitter Breakdown Voltage	80		Vdc
V <sub>(BR)CEO</sub> 2SD667A	(⊱= 1mAdc, I <sub>B</sub> =0)	100		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	120		Vdc
	(l <sub>c</sub> = 10µAdc, l <sub>E</sub> =0)			
V <sub>(BR)EBO</sub>	Emitter-Base Voltage	5		Vdc
. ,	(l₌= 10µAdc,l_=0)			
I <sub>CBO</sub>	Collector Cutoff Current		10	µAdc
	(V <sub>CB</sub> = 100Vdc, I <sub>E</sub> =0)			

#### **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain	60	320	
	(と= 150mAdc, V <sub>CE</sub> = 5Vdc)			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage			
. ,	(と= 500mAdc,		1	Vdc

#### **SMALL-SIGNAL CHARACTERISTICS**

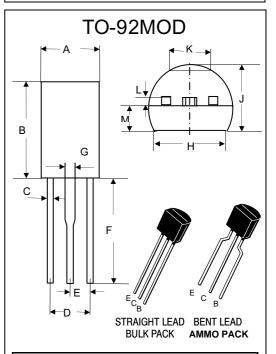
f⊤	Transistor Frequency (L= 150mAdc, V <sub>CE</sub> = 5Vdc)	140(type)	MHz
Cob	Output capacitance (I <sub>E</sub> = 0, V <sub>CE</sub> = 10Vdc, f=1 MHz)	20(type)	pF

#### CLASSIFICATION OF HEELD

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

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

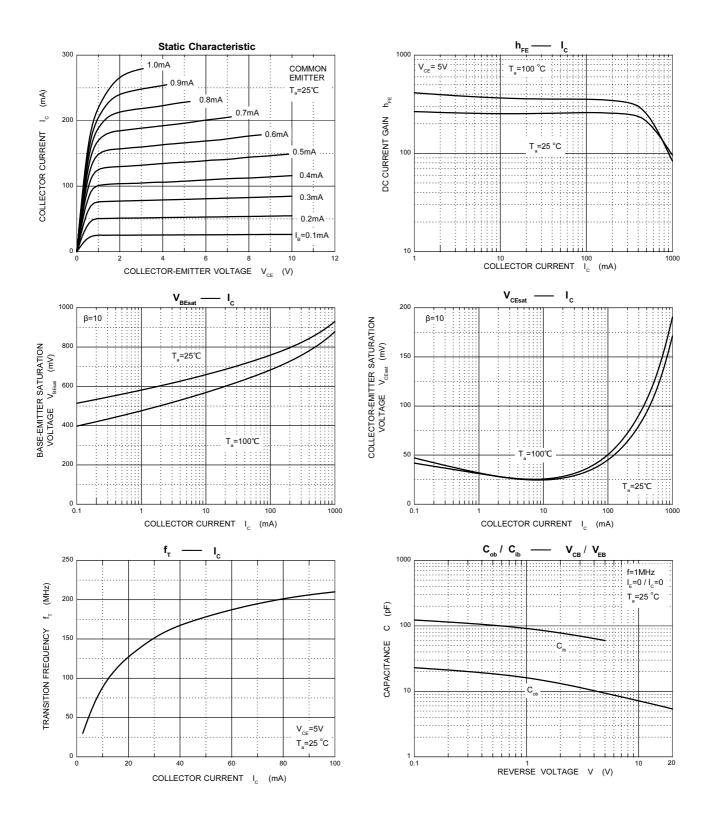
### NPN Silicon Plastic-Encapsulate Transistor



	INCHES		MM			
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 Lea	
D	.173	.220	4.40	5.60	Bent Lead	
E .059		59	1.50		Straight Lea	
E	.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		

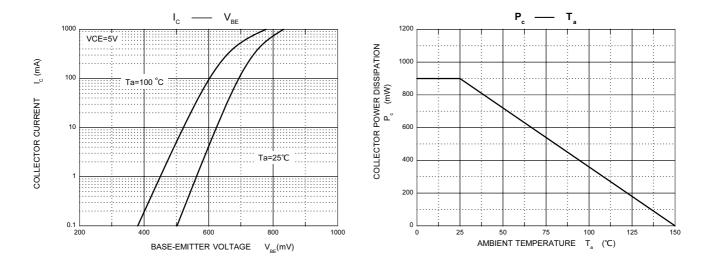


# 2SD667(A)





### 2SD667(A)





#### **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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