

Micro Commercial Components



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Features

- Capable of 0.625Watts of Power Dissipation.
- Collector-current 1.0A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking: M28S X

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units				
OFF CHARACTERISTICS								
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I $_{\rm C}$ =1.0mAdc, I $_{\rm B}$ =0)	20		Vdc				
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I $_{\rm C}$ =0.1mAdc, I _E =0)	40		Vdc				
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I $_{\rm E}$ =0.1mAdc, I _C =0)	6.0		Adc				
I _{CBO}	Collector Cutoff Current (V _{CB} =40Vdc, I _E =0)		1.0	uAdc				
I _{CEO}	Collector Cutoff Current (V _{CE} =20Vdc, <u>k</u> =0)		5.0	Vdc				
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, <u>b</u> =0)		0.1	uAdc				
ON CHARAC	CTERISTICS							
h _{FE-1}	DC Current Gain (I _c =1.0mAdc, V _{ce} =1.0Vdc)	290	1000					
h _{FE-2}	DC Current Gain (I _c =100mAdc, V _{ce} =1.0Vdc)	300	1000					
h _{FE-3}	DC Current Gain (I _c =300mAdc, V _{ce} =1.0Vdc)	300	1000					
h _{FE-4}	FE-4 DC Current Gain		1000					

(I _c=500mAdc, V_{ce}=1.0Vdc)

(I _c=600mAdc, <u>b</u>=20mAdc)

Transition Frequency

Collector-Emitter Saturation Voltage

(V_{CE}=10Vdc, I_C=50mAdc, f=30MHz)

В

300-550

M28S-B

M28S-C

M28S-D

NPN Silicon

Plastic-Encapsulate

Transistor



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.170	.190	4.33	4.83			
В	.170	.190	4.30	4.83			
С	.550	.590	13.97	14.97			
D	.010	.020	0.36	0.56			
E	.130	.160	3.30	3.96			
G	.096	.104	2.44	2.64			

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0.55

D

650-1000

100

С

500-700

Vdc

MHz

V CE(sat)

CLASSIFICATION OF H

Rank

Range

 $\boldsymbol{f}_{\mathsf{T}}$



Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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