mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- ¿ Capable of 600mW of Power Disspation and 200mA Ic
- ¿ Epoxy meets UL 94 V-0 flammability rating
- ¿ Moisure Sensitivity Level 1
- ¿ Through Hole Package
- ¿ Halogen free available upon request by adding suffix "-HF"
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO} Collector-Emitter		Breakdown Voltage*	40		Vdc
Viences	(I _C -1.0IIAUC, I _B -0) Collector-Base Breakdown Voltage		40		Vdc
V (BR)CBO	$(l_c=10\mu Adc, l_c=0)$		40		vuc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage		5.0		Vdc
	(I _E =10μAdc, I _C =0)				
I _{BL}	Base Cutoff Current			50	nAdc
	(V _{CE} =30Vdc, V _E				
I _{CEX}	Collector Cutoff C		50	nAdc	
	$(V_{CE}=30Vdc, V_{BE}=3.0Vdc)$				
ON CHARA	<u>CTERISTICS</u>				
h _{FE}	DC Current Gain*				
	(I _c =0.1mAdc, V	60			
	(I _C =1.0mAdc, V	80	200		
	$(I_c = 10 \text{ mAdc}, V_c)$	60	300		
	(I _c =100mAdc, V _c	30			
V _{CE(sat)}	Collector-Emitter				
0E(out)	(I _C =10mAdc, I _B :		0.25	Vdc	
	(I _C =50mAdc, I _B :		0.4		
V _{BE(sat)}	Base-Emitter Sa				
	$(I_{C}=10\text{mAdc}, I_{B}=1.0\text{mAdc})$		0.65	0.85	Vdc
	(I _C =50mAdc, I _B :			0.95	
5MALL-516	NAL CHAKACIEKI	51165	-	1	
f⊤	Current Gain-Bandwidth Product				
	(I _c =10mAdc, V _{CE} =20Vdc, f=100MHz)		250		MHz
C _{obo}			4.5	ъĘ	
C.	V_{CB} = 5.0 V dec, I_E = 0, I = 100 kHz)			4.5	μr
Vibo	$(V_{\text{RE}}=0.5\text{Vdc} _{c}=0.\text{ f}=100\text{kHz})$			10.0	рF
NF	Noise Figure				μ.
	(I _c =100µAdc, V _{ce}		4.0	dB	
	f=10Hz to 15.7kHz)				
SWITCHIN	G CHARACTERIST	ICS			
t _d	Delay Time	(V _{CC} =3.0Vdc, V _{BE} =0.5Vdc		35	ns
tr	Rise Time	$I_{c}=10$ mAdc, $I_{B1}=1.0$ mAdc)		35	ns
ts	Storage Time	(V _{CC} =3.0Vdc, I _C =10mAdc		225	ns
t _f	Fall Time	I _{B1} =I _{B2} =1.0mAdc)		75	ns
*Pulse Widt	$h \leq 300 \mu s$, Duty Cy	/cle≤2.0%			

2N3906

PNP General Purpose Amplifier



2N3906







Micro Commercial Components

2N3906



www.mccsemi.<mark>com</mark>

2N3906





Output Admittance $h_{oe} - (\mu \Omega)$ 100 100 100 100 1.0 1.0 1.0 1.0 1.0 1.0

Voltage Feedback Ratio



Turn On and Turn Off Times vs Collector Current





Ordering Information :

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

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

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