imall

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

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Micro Commercial Components



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

Features

- Halogen free available upon request by adding suffix "-HF" Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epitaxial Die Construction
- Ideal for Low Power Amplification and Switching
- Ultra-small Surface Mount Package
- Marking:KAR
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
 Maximum Patings @ 2500 Unless Otherwise Specified

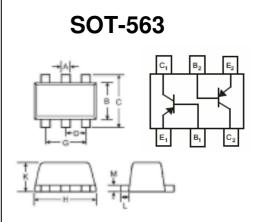
maximum natings @ 2000 onicss other Mise opeenicu					
Symbol	Rating	Rating	Unit		
V _{CEO}	Collector-Emitter Voltage	-40	V		
V _{CBO}	Collector-Base Voltage	-40	V		
V _{EBO}	Emitter-Base Voltage	-5	V		
I _C	Collector Current-Continuous	-0.2	A		
Pc	Collector Dissipation	0.15	W		
R _{°JA}	Thermal Resistance Junction to Ambient	833	°C/W		
TJ	Operating Junction Temperature	-55 to +150	°C		
T _{STG}	Storage Temperature	-55 to +150	°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Symbol	Parameter		Тур	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1mAdc, I _B =0)				Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-10uAdc, I _E =0)	-40			Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =-10uAdc, I _c =0) -5			Vdc	
I _{CEX}	Collector Cutoff Current (V _{CE} =-30Vdc,V _{EB(OEE)} =-3Vdc)			50	nAdc
I _{BL}	Base Cutoff Current (V _{CE} =-30Vdc,V _{EB(OFF)} =-3Vdc)			50	nAdc
h _{FE}	DC Current Gain				
	(I _C =-0.1mAdc, V _{CE} =-1Vdc)	60			
	(I _C =-1mAdc, V _{CE} =-1Vdc)	80			
	(I _C =-10mAdc, V _{CE} =-1Vdc)	100		300	
	(I _C =-50mAdc, V _{CE} =-1Vdc)	60			
	(I _C =-100mAdc, V _{CE} =-1Vdc)	30			
V _{CE(sat)}	Collector-Emitter Saturation Voltage				
	(I _C =-10mAdc, I _B =-1mAdc)			-0.25	Vdc
	(I _C =-50mAdc, I _B =-5mAdc)			-0.4	
V _{BE(sat)}	Base-Emitter Saturation Voltage				
	(I _C =-10mAdc, I _B =-1mAdc)	-0.65		-0.85	Vdc
	(I _c =-50mAdc, I _B =-5mAdc)			-0.95	

MMDT3906V

PNP Plastic-Encapsulate Transistors



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.011	0.15	0.30	
В	.043	.049	1.10	1.25	
С	.061	.067	1.55	1.70	
D	.020		0.50		
G	.035	.043	0.90	1.10	
Н	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
М	.004	.007	0.10	0.18	

MMDT3906V



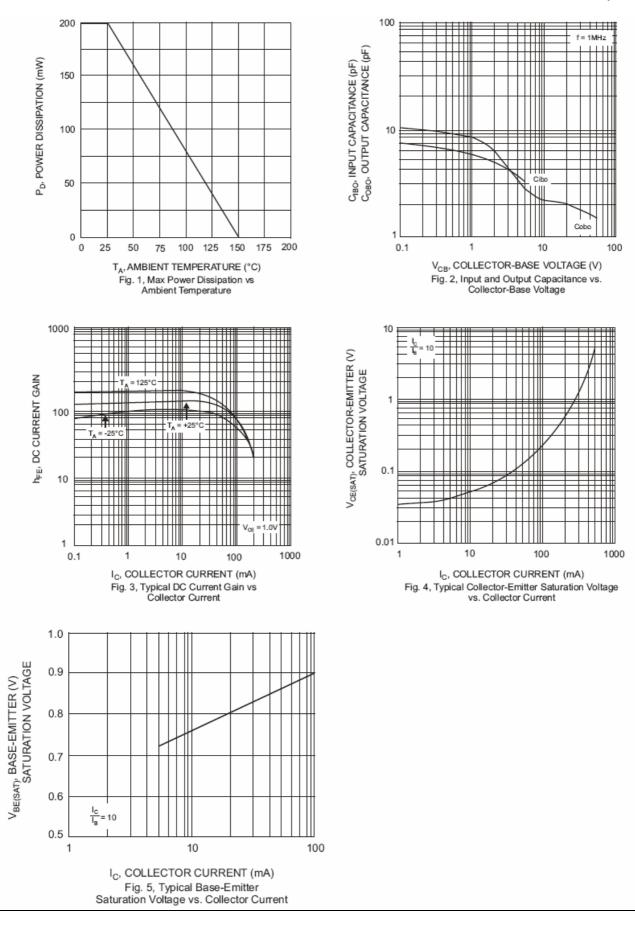
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units
f⊤	Transition Frequency (V _{CE} =-20Vdc, I _C =-10mAdc, f=100MHz)		250			MHz
C _{ob}	Output Capacitance (V _{CB} =-5Vdc, f=1.0MHz, I _E =0)				4.5	pF
NF	Noise Figure (V_{CE} =-5V, I_{C} =-0.1mA, f=1KHz, R _S =1k Ω)				4	dB
t _d	Delay Time	V _{CC} =-3V, I _C =-10mA, V _{BE(off)} =0.5V,			35	ns
tr	Rise Time	$I_{B1} = -I_{B2} = -1 \text{ mA}$			35	ns
ts	Storage Time	V _{CC} =-3V, I _C =-10mA, I _{B1} =-I _{B2} =-1mA			225	ns
t _f	Fall Time				75	ns

MMDT3906V



Micro Commercial Components





Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3 Kpcs/Reel

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

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