

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!



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MMDT5551

Features

- Halogen free available upon request by adding suffix "-HF" Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
 Capable of 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Operating and Storage Junction Temperatures: -55 ℃ to 150 ℃
- Marking:K4N

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	Э		
	$(I_C=1 \text{ mAdc}, I_B=0)$	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage			
	$(I_C=100\mu A, I_E=0)$	180		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage			
	$(I_E=10\mu Adc, I_C=0)$	6.0		Vdc
I _{EBO}	Emitter Cutoff Current			
	$(V_{EB}=4Vdc, I_{C}=0)$		50	nAdc
I _{CBO}	Collect Cutoff Current			
	$(V_{CB}=120Vdc, I_{E}=0)$		50	nAdc
Ic	Collector Current-Continuous		200	mA
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient		625	K/W

ON CHARACTERISTICS

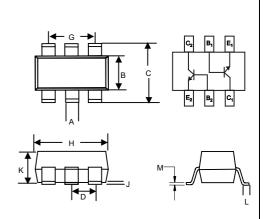
h _{FE}	DC Current Gain* $(I_C=1 \text{mAdc}, V_{CE}=5.0 \text{Vdc})$ $(I_C=10 \text{mAdc}, V_{CE}=5.0 \text{Vdc})$	80 80	250	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =10mAdc, I _B =1.0mAdc)		0.15	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =10mAdc, I _B =1.0mAdc)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

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f _T	Current Gain-Bandwidth Product			
	$(I_C=10 \text{mAdc}, V_{CE}=20 \text{Vdc}, f=100 \text{MHz})$	100	300	MHz
C_{obo}	Output Capacitance			
	$(V_{CB}=5.0Vdec, I_{E}=0, f=1.0MHz)$		6.0	pF
Naisa figura	Rg=1kohm			
Noise figure	V _{CE} =5.0Vdec, IC=200uA, f=1.0KHz		8.0	NF

Plastic-Encapsulate Transistors





DIMENSIONS					
	INCH	INCHES		MM	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



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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