



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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	tage		
, ,	$(I_C=1 \text{ mAdc}, I_B=0)$	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

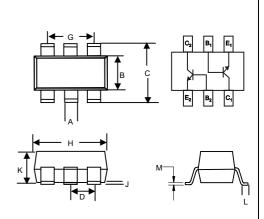
h _{FE}	DC Current Gain* (I _C =1mAdc, V _{CE} =5.0Vdc) (I _C =10mAdc, V _{CE} =5.0Vdc)	80 100	300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =10mAdc, I _B =1.0mAdc)		0.15	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =10mAdc, I _B =1.0mAdc)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

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f⊤	Current Gain-Bandwidth Product				
	$(I_C=10\text{mAdc}, V_{CE}=20\text{Vdc}, f=100\text{MHz})$	100	300	MHz	
C_{obo}	o 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					
	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	
М	.003	.006	0.08	0.15	



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Ordering Information:

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

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

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