

**Micro Commercial Components** 



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

# **Features**

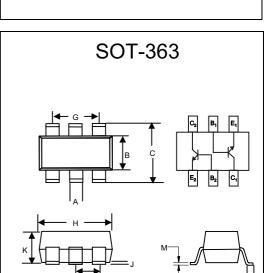
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Capable of 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Operating and Storage Junction Temperatures: -55  $\overset{\circ}{\mathbb{C}}$  to 150  $\overset{\circ}{\mathbb{C}}$
- Marking:K4N

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1 mAdc, I <sub>B</sub> =0)	160		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	160		vuc
()	(I <sub>C</sub> =100μA, I <sub>E</sub> =0)	180		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage			
	(I <sub>E</sub> =10µAdc, I <sub>C</sub> =0)	6.0		Vdc
I <sub>EBO</sub>	Emitter Cutoff Current			
	(V <sub>EB</sub> =4Vdc, I <sub>C</sub> =0)		50	nAdc
I <sub>CBO</sub>	Collect Cutoff Current			
	(V <sub>CB</sub> =120Vdc, I <sub>E</sub> =0)		50	nAdc
lc	Collector Current-Continuous		200	mA
R <sub>0JA</sub>	Thermal Resistance, Junction to Ambient		625	K/W

#### **ON CHARACTERISTICS**

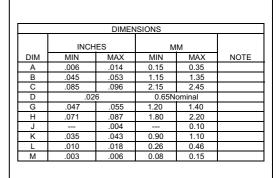
h <sub>FE</sub>	DC Current Gain* (I <sub>c</sub> =1mAdc, V <sub>CE</sub> =5.0Vdc)	80				
	$(I_c=10$ mAdc, $V_{cE}=5.0$ Vdc) $(I_c=10$ mAdc, $V_{cE}=5.0$ Vdc)	80	250			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.15	\/da		
	(I <sub>C</sub> =10mAdc, I <sub>B</sub> =1.0mAdc)		0.15	Vdc		
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage					
	(I <sub>c</sub> =10mAdc, I <sub>B</sub> =1.0mAdc)		1.0	Vdc		
SMALL-SIGNAL CHARACTERISTICS						
f <sub>T</sub>	Current Gain-Bandwidth Product					
	(I <sub>C</sub> =10mAdc, V <sub>CE</sub> =20Vdc, f=100MHz)	100	300	MHz		
C <sub>obo</sub>	Output Capacitance					
	(V <sub>CB</sub> =5.0Vdec, I <sub>E</sub> =0, f=1.0MHz)		6.0	pF		
Noise figure	Rg=1kohm V <sub>CF</sub> =5.0Vdec, IC=200uA, f=1.0KHz		8.0	NF		
	OL , O					



**MMDT5551** 

**Plastic-Encapsulate** 

Transistors



www.mccsemi.com



## **Ordering Information :**

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

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