

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) MMDT5551-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of MMDT5551-TP - TRANS 2NPN 160V 0.2A SOT363 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



**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)
- 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  $^\circ\!C$  to 150  $^\circ\!C$
- Marking:K4N

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

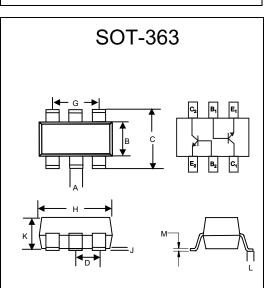
Symbol	Parameter	Max	Units	
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage			
	(I <sub>C</sub> =1 mAdc, I <sub>B</sub> =0)	160		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage			
	(I <sub>C</sub> =100μA, I <sub>E</sub> =0)	180		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage			
	$(I_E=10\mu Adc, I_C=0)$	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
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient		625	K/W

### **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain* ( $I_c=1mAdc$ , $V_{CE}=5.0Vdc$ ) ( $I_c=10mAdc$ , $V_{CE}=5.0Vdc$ )	80 100	300	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage ( $I_c$ =10mAdc, $I_B$ =1.0mAdc) 0.15		Vdc	
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage ( $I_c=10mAdc$ , $I_B=1.0mAdc$ )		1.0	Vdc
SMALL-SIGNAL CHARACTERISTICS				
f⊤	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>CE</sub> =5.0Vdec, IC=200uA, f=1.0KHz		8.0	NF

# **MMDT5551**

## **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		
К	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
М	.003	.006	0.08	0.15		

## www.mccsemi.com





**Micro Commercial Components** 

### **Ordering Information :**

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

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

### **\*\*\*IMPORTANT NOTICE\*\*\***

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

# • www.mccsemi.com