

Excellent Integrated System Limited

Stocking Distributor

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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

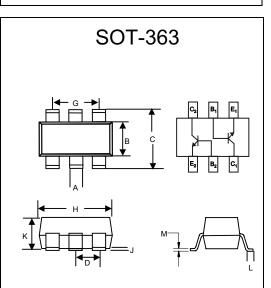
Symbol	Parameter	Max	Units	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage			
	(I _C =1 mAdc, I _B =0)	160		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage			
	(I _C =100μA, I _E =0)	180		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage			
	$(I_E=10\mu Adc, I_C=0)$	6.0		Vdc
I _{EBO}	Emitter Cutoff Current			
	(V _{EB} =4Vdc, I _C =0)		50	nAdc
I _{CBO}	Collect Cutoff Current			
	(V _{CB} =120Vdc, I _E =0)		50	nAdc
lc	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				
f⊤	Current Gain-Bandwidth Product (I _c =10mAdc, V _{ce} =20Vdc, f=100MHz)	100	300	MHz
C _{obo}	Output Capacitance (V _{CB} =5.0Vdec, I _E =0, f=1.0MHz)		6.0	pF
Noise figure	Rg=1kohm V _{CE} =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





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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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