

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

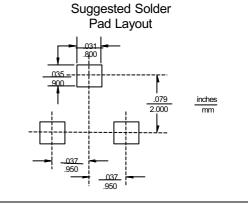
Phone: (818) 701-4933 (818) 701-4939 Fax:

MMBT5551

NPN Plastic Encapsulate Transistor

SOT-23 DIMENSIONS

	INCHE	S	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



Features

- Halogen free available upon request by adding suffix "-HF"
- Collector Current: I_{CM}=0.6A
- Collector-Base Voltage: V_{(BR)CBO}=180V
- Operating And Storage Temperatures –55°C to 150°C
- Capable of 0.3Watts of Power Dissipation
- Marking: G1
- 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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARAC	ETERISTICS			
$V_{(BR)CEO}$	Collector -Emitter Breakdown Voltage (-E=1.0mAdc, I _B =0)	160		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =100uAdc, I _E =0)	180		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =10uAdc, I _C =0)	6.0		Vdc
Ісво	Collector Cutoff Current (V _{CB} =120Vdc, I _E =0)		50	nAdc
l _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		50	nAdc

ON CHARACTERISTICS

h _{FE-1}	DC Current Gain	80		
	(V _{CE} =5.0Vdc, _b =1.0mAdc)			
h _{FE-2}	DC Current Gain	100	300	
	(V _{CE} =5.0Vdc,			
h _{FE-3}	DC Current Gain	50		
	(V _{CE} =5.0Vdc, _C =50mAdc)			
V _{CE(sat)}	Collector-Emitter Saturation Voltage			
	(l _c =50mAdc, l _s =5.0mAdc)		0.2	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
. ,	(l _c =50mAdc,l _B =5.0mAdc)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

f⊤	Current Gain-Bandwidth Product			
	($_{C}$ =10mAdc, V_{CE} =5.0Vdc, f=30MHz)	100	300	MHz



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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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