

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

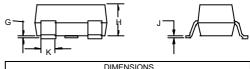
Phone: (818) 701-4933 (818) 701-4939 Fax:

MMBT5551

NPN Plastic

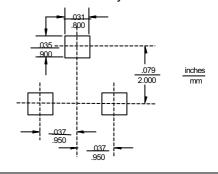
Encapsulate Transistor

SOT-23



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

Suggested Solder Pad Layout



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	CTERISTICS			
$V_{(BR)CEO}$	Collector -Emitter Breakdown Voltage (L=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
I _{СВО}	Collector Cutoff Current (V _{CB} =120Vdc, I _E =0)		0.1	uAdc
l _{ЕВО}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		0.1	uAdc

ON CHARACTERISTICS

h _{FE-1}	DC Current Gain	80		
	(V _{CE} =5.0Vdc, _b =1.0mAdc)			
h _{FE-2}	DC Current Gain	100	100 200	
	(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)		0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
` ,	(l _c =50mAdc,l _B =5.0mAdc)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

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



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Ordering Information:

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

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

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