

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) Epitaxial Planar Die Construction
- Ideal for Low Power Amplification and Switching
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: K4M/K2T

Maximum Ratings @ 25°C Unless Otherwise Specified

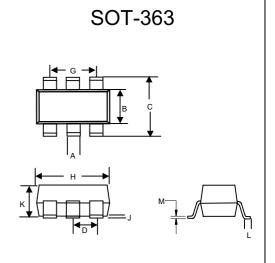
Symbol	Rating	Rating(PNP)	Unit
V _{CEO}	Collector-Emitter Voltage	40	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	0.6	Α
Pc	Collector Dissipation	0.2	W
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Flectrical Characteristics @ 25°C IInless Atherwise Snecified

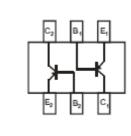
Electri	LIECTRICAL CHARACTERISTICS @ 25°C UNIESS UTNERWISE SPECIFIED					
Symbol		Min	Max	Units		
V _{(BR)CEO}	Collector-Emitte (I _C =-1mAdc, I _B	40		Vdc		
V _{(BR)CBO}	Collector-Base E (I _c =100uAdc, I	40		Vdc		
V _{(BR)EBO}	Collector-Emitte (I _E =100uAdc, I	5		Vdc		
I _{CBO}	Collector Cutoff (V _{CB} =50Vdc,I _E		0.1	uAdc		
I _{EBO}	Emitter Cutoff C (V _{EB} =-5Vdc,I _C :		0.1	uAdc		
h _{FE}	DC Current Gair $(I_c=0.1mAdc, V_c)$ $(I_c=1mAdc, V_c)$ $(I_c=10mAdc, V_c)$ $(I_c=150mAdc, V_c)$ $(I_c=500mAdc, V_c)$	30 60 100 100 20	 300 			
V _{CE(sat)}	Collector-Emitte (I _C =150mAdc, (I _C =500mAdc,		0.4 0.75	Vdc		
$V_{BE(sat)}$	Base-Emitter Sa (I _c =150mAdc, (I _c =500mAdc,	0.75	0.95 1.3	Vdc		
f _T	Current Gain-Bandwidth Product (V _{CE} =10.0Vdc, I _C =20mAdc, f=100MHz)		200		MHz	
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz, I _E =0)			8.5	pF	
t _d	Delay Time	V _{CC} =30V,I _C =150mA,		15	ns	
tr	Rise Time	V _{BE} =2.00V, I _{B1} =15.00mA		20	ns	
ts	Storage Time	V _{CC} =30V, I _C =150mA,		225	ns	
t _f	Fall Time	I _{B1} =I _{B2} =15mA		30	ns	

MMDT4403

PNP Plastic-Encapsulate Transistors



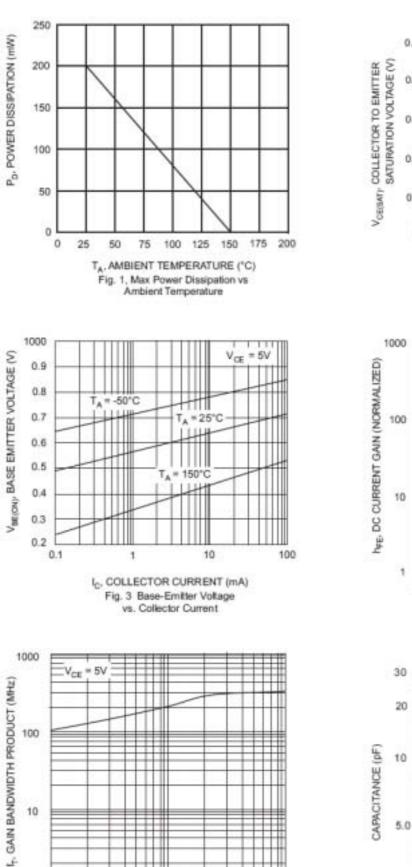
	DIMENSIONS						
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.006	.014	0.15	0.35			
В	.045	.053	1.15	1.35			
С	.085	.096	2.15	2.45			
D	.02	6	0.65N	ominal			
G	.047	.055	1.20	1.40			
Н	.071	.087	1.80	2.20			
J		.004		0.10			
K	.035	.043	0.90	1.10			
L	.010	.018	0.26	0.46			
М	.003	.006	0.08	0.15			



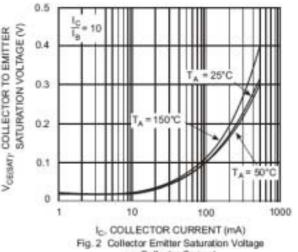
www.mccsemi.com

MMDT4403

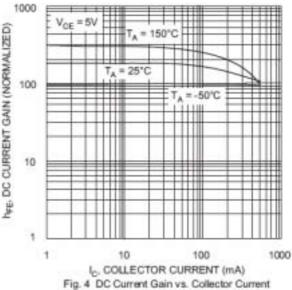
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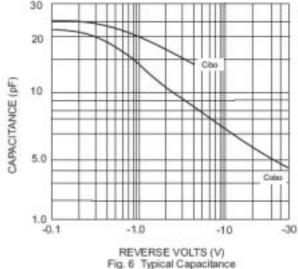


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vs. Collector Current







10

1

1

10

IC, COLLECTOR CURRENT (mA)

Fig. 5 Gain Bandwidth Product vs. Collector Current

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2013/01/01



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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