

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Collector Current:Ic=0.2A
- Epitaxial planar die construction
- Ideal for low power amplification and switching
- Marking: K6N
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

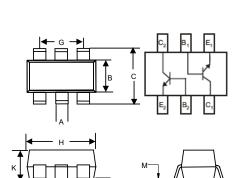
Maximum Ratings

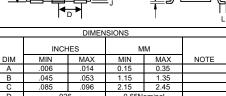
шалп	liulli nauliyə				
Symbol	Rating		,	Unit	
Pc	Power dissipation (1)	200		mW	
R _{THJA}	Thermal Resistance	625		°C/W	
TJ	Junction Temperature -55 to +1				
T _{STG}	Storage Temperature -55 to +		150 ^o C		
Electrica	al Characteristics @ 25°C	Unless Otherw	ise Spe	cified	
Symbol	Parameter	Min	Max	Units	
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Volt	ade			
V (BR)CEO	$(I_{C}=1.0$ mAdc, $I_{B}=0)$	40		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltag	ge			
	$(I_{c}=10\mu Adc, I_{E}=0)$	60		Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	1			
	(I _E =10µAdc, I _C =0)	5.0		Vdc	
I _{EBO}	Emitter Cutoff Current				
200	(V _{EB} =5Vdc, I _C =0)		50	nAdc	
I _{CEO}	Collector Cutoff Current				
	(V _{CE} =30Vdc, I _B =0)		50	nAdc	
I _{CBO}	Collect Cutoff Current				
	(V _{CB} =30Vdc, I _E =0)		50	nAdc	
ON CHARA	CTERISTICS				
h _{FE}	DC Current Gain*				
	(I _C =10mAdc, V _{CE} =1.0Vdc)	100	300		
	(I _C =50mAdc, V _{CE} =1.0Vdc)		60		
V _{CE(sat)}	Collector-Emitter Saturation Volta	age			
	(I _c =50mAdc, I _B =5.0mAdc)		0.3	Vdc	
V _{BE(sat)}	Base-Emitter Saturation Voltage		0.05		
	$(I_c=50 \text{mAdc}, I_B=5.0 \text{mAdc})$		0.95	Vdc	
	NAL CHARACTERISTICS	1			
f⊤	Current Gain-Bandwidth Product				
	(I _C =10mAdc, V _{CE} =20Vdc, f=100	MHz) 300		MHz	
Cobo Output Capacitance			1.0	_	
	(V _{CB} =5.0Vdec, I _E =0, f=1.0MHz)		4.0	pF	
SWITCHIN	<u>G CHARACTERISTICS</u>				
t _d		(V _{CC} =3.0Vdc, V _{BE} =0.5Vdc		ns	
t _r		I _C =10mAdc, I _{B1} =1.0mAdc)		ns	
t _s	Storage Time (V _{cc} =3.0Vdc, I _c	(V _{cc} =3.0Vdc, I _c =10mAdc		ns	
t _f	Fall Time I _{B1} =I _{B2} =1.0mAd	$I_{B1}=I_{B2}=1.0$ mAdc)		ns	

MMDT3904

200mW Plastic-Encapsulate Transistors

SOT-363





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	

Note: 1. Valid provided that terminals are kept at ambient temperature.

www.mccsemi.com



Ordering Information :

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

*****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