

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

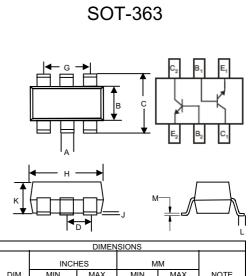
Maximum Ratings

Maxii	iiuiii naliiiy	9				
Symbol	Rating		Rating		Unit	
Pc	Power dissipation ⁽¹⁾		200		mW	
R _{THJA}	Thermal Resistance		625		°C/W	
TJ	Junction Temperature		-55 to +150		°C	
T _{STG}	Storage Temperature		-55 to +150		°C	
Electrica	al Characteristic	s @ 25°C Unles	s Otherwi	ise Spe	cified	
Symbol	Para	imeter	Min	Max	Units	
OFF CHARA	CTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage					
(BR)CEO	$(I_c=1.0 \text{ mAdc}, I_B=0)$		40		Vdc	
V _{(BR)CBO}	Collector-Base Brea	ise Breakdown Voltage				
()	(I _c =10µAdc, I _E =0)	60		Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage					
	$(I_E=10\mu Adc, I_C=0)$		5.0		Vdc	
I _{EBO}	Emitter Cutoff Current					
	$(V_{EB}=5Vdc, I_{C}=0)$			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} =	100	300			
	(I _C =50mAdc, V _{CE} =	60				
V _{CE(sat)}	Collector-Emitter Saturation Voltage					
	(I _C =50mAdc, I _B =5		0.3	Vdc		
V _{BE(sat)}	Base-Emitter Satur		0.05	Vala		
	(I _C =50mAdc, I _B =5.0	,		0.95	Vdc	
	NAL CHARACTERISTI		1			
f⊤	Current Gain-Bandwidth Product					
-	(I _c =10mAdc, V _{cE} =20Vdc, f=100MHz)		300		MHz	
C _{obo}				10		
	(V _{CB} =5.0Vdec, I _E =			4.0	pF	
SWITCHIN	<u>G CHARACTERISTICS</u>					
t _d		V_{CC} =3.0Vdc, V_{BE} =0.5V		35	ns	
tr	Rise Time I _c	I _c =10mAdc, I _{B1} =1.0mAdc)		35	ns	
ts	Storage Time (\	(V _{CC} =3.0Vdc, I _C =10mAdc		200	ns	
t _f	Fall Time I _{B1} =I _{B2} =1.0mAdc)			50	ns	

MMDT3904

200mW

Plastic-Encapsulate Transistors



	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	
Ĺ	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	

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

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Ordering Information :

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

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