



Micro Commercial Components

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DMMT5401

Features

- Ideal for Low Power Amplification and Switching
- Ultra-small Surface Mount Package
- Epitaxial Planar Die Construction
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:K4S

Maximum Ratings @ 25°C Unless Otherwise Specified

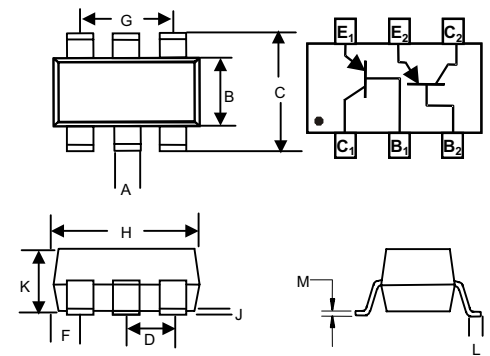
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{CBO}	Collector-Base Voltage	-160	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-0.2	A
P _D	Power Dissipation	0.2	W
T _J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1mA _{dc} , I _B =0)	-150	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100uA _{dc} , I _E =0)	-160	---	Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =-10uA _{dc} , I _C =0)	-5	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-120Vdc, I _E =0)	--	0.05	uA
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3Vdc, I _C =0)	---	-0.05	uA
h _{FE}	DC Current Gain (I _C =-1mA _{dc} , V _{CE} =-5Vdc) (I _C =-10mA _{dc} , V _{CE} =-5Vdc) (I _C =-50mA _{dc} , V _{CE} =-5Vdc)	50	---	---
		60	240	
		50	---	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-10mA _{dc} , I _B =-1mA _{dc}) (I _C =-50mA _{dc} , I _B =-5mA _{dc})	---	-0.2 -0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =-10mA _{dc} , I _B =-1mA _{dc}) (I _C =-50mA _{dc} , I _B =-5mA _{dc})	---	-1 -1	Vdc
f _T	Current Gain-Bandwidth Product (V _{CE} =-10Vdc, I _C =-10mA _{dc} , f=100MHz)	100	300	MHz
C _{ob}	Output Capacitance (V _{CB} =-10Vdc, f=1.0MHz, I _E =0)	---	6.0	pF
NF	Noise Figure (V _{CE} =-5V, I _C =-0.2mA, f=1KHz, R _S =10Ω)	---	8	dB

Plastic-Encapsulate Transistors

SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.004	.012	0.10	0.30	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026		0.65Nominal		
F	.012	.016	0.30	0.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.039	0.90	1.00	
L	.010	.016	0.25	0.40	
M	.004	.016	0.10	0.25	



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Ordering Information

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

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