



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

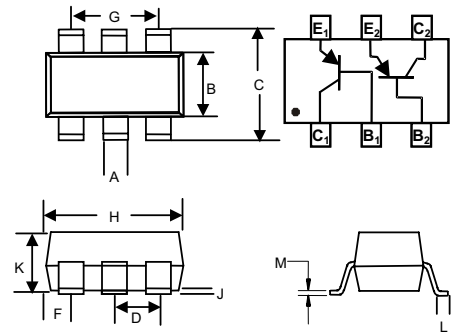
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{CBO}	Collector-Base Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.2	A
P_D	Power Dissipation	0.2	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1mA$, $I_B=0$)	-150	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-100\mu A$, $I_E=0$)	-160	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=-10\mu A$, $I_C=0$)	-5	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=-120V$, $I_E=0$)	--	0.05	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-3V$, $I_C=0$)	---	-0.05	μA
h_{FE}	DC Current Gain ($I_C=-1mA$, $V_{CE}=-5V$) ($I_C=-10mA$, $V_{CE}=-5V$) ($I_C=-50mA$, $V_{CE}=-5V$)	50 60 50	--- 240 ---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-10mA$, $I_B=-1mA$) ($I_C=-50mA$, $I_B=-5mA$)	---	-0.2 -0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=-10mA$, $I_B=-1mA$) ($I_C=-50mA$, $I_B=-5mA$)	---	-1 -1	Vdc
f_T	Current Gain-Bandwidth Product ($V_{CE}=-10V$, $I_C=-10mA$, $f=100MHz$)	100	300	MHz
C_{ob}	Output Capacitance ($V_{CB}=-10V$, $f=1.0MHz$, $I_E=0$)	---	6.0	pF
NF	Noise Figure ($V_{CE}=-5V$, $I_C=-0.2mA$, $f=1KHz$, $R_S=10\Omega$)	---	8	dB

Plastic-Encapsulate Transistors

SOT-363



DIM	INCHES		MM		NOTE
	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	

Ordering Information

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

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