



Micro Commercial Components

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DMMT5551

Features

- Surface Mount SOT-363 Package
- 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:K4R

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	160	V
V_{CBO}	Collector-Base Voltage	180	V
V_{EBO}	Emitter-Base Voltage	6.0	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

OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1.0\text{mA}$, $I_E=0$)	160	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	180		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu\text{A}$, $I_C=0$)	6.0		Vdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4\text{Vdc}$, $I_C=0$)		50	nAdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=120\text{Vdc}$, $I_E=0$)		50	nAdc

ON CHARACTERISTICS

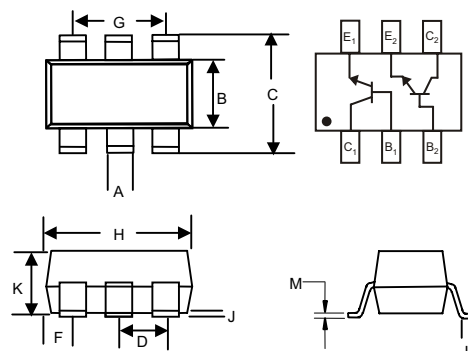
h_{FE}	DC Current Gain* ($I_C=1\text{mA}$, $V_{CE}=5.0\text{Vdc}$) ($I_C=10\text{mA}$, $V_{CE}=5.0\text{Vdc}$)	80 80	250	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=10\text{mA}$, $I_E=1.0\text{mA}$)		0.15	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=10\text{mA}$, $I_E=1.0\text{mA}$)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

f_T	Current Gain-Bandwidth Product ($I_C=10\text{mA}$, $V_{CE}=10\text{Vdc}$, $f=100\text{MHz}$)	100	300	MHz
C_{obo}	Output Capacitance ($V_{CB}=10\text{Vdc}$, $I_E=0$, $f=1.0\text{MHz}$)		6.0	pF
Noise figure	$R_g=1\text{kohm}$ $V_{CE}=5\text{Vdc}$, $I_C=200\mu\text{A}$, $f=1\text{KHz}$, $R=1\text{kohm}$		8.0	NF

Plastic-Encapsulate Transistors

SOT-363



DIMENSIONS					
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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