



Micro Commercial Components

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DMMT5551

Features

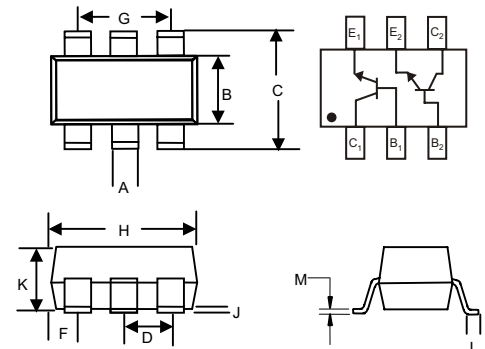
- Surface Mount SOT-363 Package
- 200mWatts of Power Dissipation
- Ideal for Medium Power Amplification and Switching
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:K4R

Plastic-Encapsulate Transistors

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

SOT-363



OFF CHARACTERISTICS

V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1.0mA, I _B =0)	160	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =100μA, I _E =0)	180		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10μA, I _C =0)	6.0		Vdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =4Vdc, I _C =0)		50	nAdc
I _{CBO}	Collect Cutoff Current (V _{CB} =120Vdc, I _E =0)		50	nAdc

ON CHARACTERISTICS

h _{FE}	DC Current Gain* (I _C =1mA, V _{CE} =5.0Vdc) (I _C =10mA, V _{CE} =5.0Vdc)	80 80	250	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =10mA, I _B =1.0mA)		0.15	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =10mA, I _B =1.0mA)		1.0	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _r	Current Gain-Bandwidth Product (I _C =10mA, V _{CE} =10Vdc, f=100MHz)	100	300	MHz
C _{obo}	Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz)		6.0	pF
Noise figure	R _g =1kohm V _{CE} =5Vdc, I _C =200uA, f=1KHz, R=1kOHM		8.0	NF

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	



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Ordering Information

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

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