

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

DMMT3906

PNP Small Signal

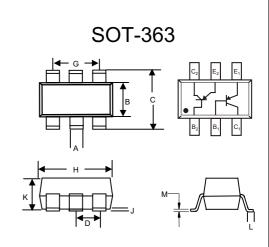
Transistors

Features

- Epitaxial Planar Die Construction
- Ultra-small surface mount package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: K3Q

Maximum Ratings

Symbol	Parameter	R	ating	Unit	
V _{CEO}	Collector-Emitter Voltage	-40		V	
V _{CBO}	Collector-Base Voltage	-40		V	
V _{EBO}	Emitter-Base Voltage	-5.0		V	
I _C	Collector Current-Continuous ⁽¹⁾	-200)	mA	
Pc	Power dissipation ⁽¹⁾	200		mW	
R _{THJA}	Thermal Resistance	625		°C/W	
ТJ	Junction Temperature	-55 to +	150	°C	
T _{STG}	Storage Temperature	-55 to +150		°C	
Electrica	I Characteristics @ 25°C Unles	ss Otherw	ise Spe	cified	
Symbol	Parameter	Min	Max	Units	
OFF CHARA	CTERISTICS ⁽²⁾				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _c =-1.0mAdc, I _B =0)	-40	Vdc		
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =-10uAdc, I _F =0)	-40		Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =-10uAdc, I _C =0)	-5.0		Vdc	
I _{CEX}	Collector-Base Cutoff Current (V _{CE} =-30Vdc, V _{EB(OFF)} =-3.0Vdc)		-50 nAdc		
I _{BL}	Emitter-Base Cutoff Current (V _{CE} =-30Vdc, V _{EB(OFF)} =-3.0Vdc)		-50 nAdc		
ON CHARA	CTERISTICS ⁽²⁾				
h _{FE}	DC Current Gain (I _c =-100uAdc, V _{CE} =-1.0Vdc) (I _c =-1.0mAdc, V _{CE} =-1.0Vdc) (I _c =-10mAdc, V _{CE} =-1.0Vdc) (I _c =-50mAdc, V _{CE} =-1.0Vdc) (I _c =-100mAdc, V _{CE} =-1.0Vdc)	60 80 100 60 30	 300 		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I_c =-10mAdc, I_B =-1.0mAdc) (I_c =-50mAdc, I_B =-5.0mAdc)		-0.25 Vdc -0.40		
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage (I_c =-10mAdc, I_B =-1.0mAdc) (I_c =-50mAdc, I_B =-5.0mAdc)	-0.65			



DIMENSIONS					
	INC	INCHES		MM	
DIM	MIN	MAX	MIN	MAX	NOTE
А	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.02	.026		ominal	
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
ſ		.004		0.10	
К	.035	.043	0.90	1.10	
L	.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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SMALL SIGNAL CHARACTERISTICS

C _{obo}	Output Capacitance (V _{CB} =-5.0Vdc, f=1.0MHz, I _E =0)		4.5	pF
f _T	Current Gain-Bandwidth Product (V _{CE} =-20Vdc, I _c =-10mAdc, f=100MHz)	250		MHz

SWITCHING CHARACTERISTICS

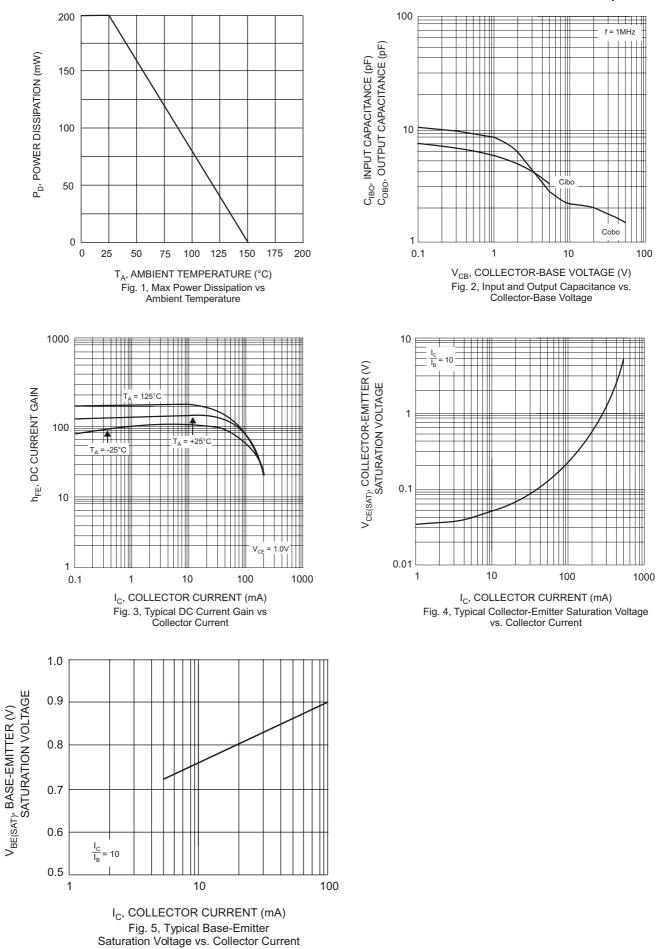
t _d	Delay Time	V _{cc} =-3.0Vdc, I _c =-10mAdc,	 35	ns
t _r	Rise Time	VBE(off)=0.5Vdc, I _{B1} =-1.0mAdc	 35	ns
ts	Storage Time	V _{CC} =-3.0Vdc, I _C =-10mAdc,	 225	ns
t _f	Fall Time	I _{B1} =I _{B2} =-1.0mAdc	 75	ns

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Ordering Information :

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

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