

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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TPT5609

Features

- Excellent linearity of Current Gain
- Low saturation voltage

NPN Epitaxial Silicon Transistor

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	20	V
V_{CBO}	Collector-Base Voltage	25	V
V_{EBO}	Emitter-Base Voltage	5.0	V
Ic	Collector Current	1.0	Α
Pc	Collector power dissipation	0.75	W
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Тур	Max	Units		
OFF CHARA	OFF CHARACTERISTICS						
BV _{CBO}	Collector-Base Breakdown Voltage ($I_c=10 \mu Adc, I_E=0$)	25			Vdc		
BV _{CEO}	Collector-Emitter Breakdown Voltage (I _C =1mAdc, I _B =0)	20			Vdc		
BV _{EBO}	Emitter-Base Breakdown Voltage (I _E =10uAdc, I _C =0)	5.0			Vdc		
I _{CBO}	Collector Cutoff Current (V _{CB} =20Vdc,I _E =0)			1	uAdc		
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			1	uAdc		

ON CHARACTERISTICS

h _{FE}	DC Current gain	60		240	
	$(I_C=500 \text{mAdc}, V_{CE}=2.0 \text{Vdc})$				
$V_{BE(on)}$	Base-Emitter On Voltage (V _{CE} =2.0Vdc, I _C =500mAdc)		1	1.0	Vdc
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =800mAdc, I _B =80mAdc)		1	0.5	Vdc
f⊤	Current Gain Bandwidth Product (V _{CE} =2.0Vdc, I _C =500mAdc)		190		MHz
C _{ob}	Output Capacitance (V _{CB} =10Vdc, I _E =0, f=1.0MHz)		22		pF

CLASSIFICATION OF hft

Rank	Α	В	С
Range	60-120	85-170	120-240

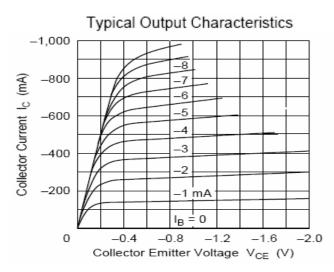
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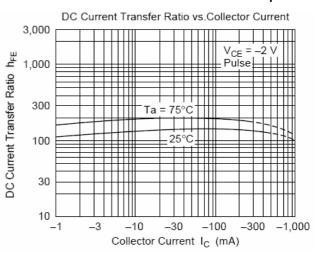
DIMENSIONS							
	INCHES		M				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	3.700	4.100	.146	.161			
В	4.000		.157				
С	0.000	0.300	0.000	0.012			
D	0.350	0.450	.014	.018			
E	1.280	1.580	.050	.062			
F	4.700	5.100	.185	.201			
G	7.800	8.200	.307	.323			
Н	13.80	14.20	.543	.559			
J	.600	.800	.024	.031			
K	0.350	.550	.014	.022			
L	1.2	270	.050				
М	2.440	2.640	.096	.104			

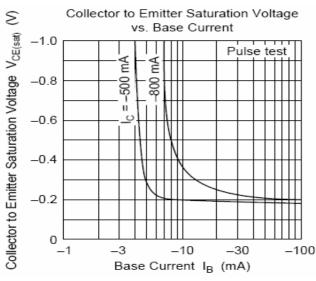
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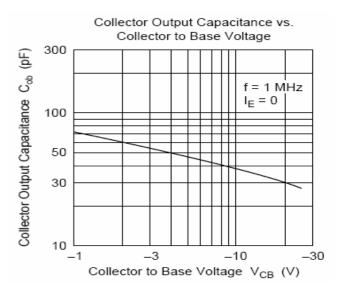


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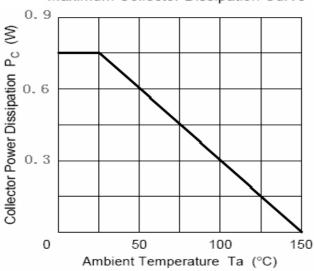








Maximum Collector Dissipation Curve





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