

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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MJD122

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material:Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- High DC Current Gain
- Electrically similar to popular TIP 122
- Built-in a damper diode at E-C
- Maximum Thermal Resistance: 83.3°C/W Junction to Ambient

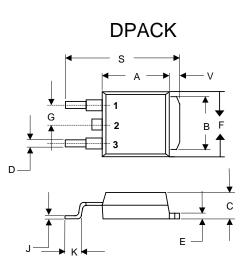
Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	100	V
V_{CBO}	Collector-Base Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	8	Α
Pc	Collector Dissipation	1.5	W
TJ	Operating Junction Temperature	150	$^{\circ}$
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =30mAdc, I _B =0)	100			Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =1mAdc, I _E =0)	100	-		Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =3mAdc, I _C =0)	5			Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =100Vdc, I _E =0)			10	nAdc
I _{CEO}	Collector emitter cutoff Current (V _{CE} =50Vdc, I _E =0)			10	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5Vdc, I _C =0)			2	nAdc
h _{FE}	DC Current Gain (I _C =-4Adc, V _{CE} =-4Vdc)	1000		12000	
	(I _C =-8Adc, V _{CE} =-4Vdc)	100			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =4Adc, I _B =16mAdc)			2	Vdc
	(I _C =8Adc, I _B =80mAdc)			4	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =8Adc, I _R =80mAdc)			4.5	Vdc
V_{BE}	Base-Emitter Saturation Voltage (I _C =4Adc, V _{CE} =4Vdc)			2.8	Vdc
C _{ob}	Output Capacitance (Vop=10Vdc_f=0.1MHz_lr=0)			200	pF

Silicon NPN epitaxial planer Transistors



PIN 1. BASE PIN 2. COLLECTOR PIN 3. EMITTER

DIMENSIONS							
	INCH	INCHES MM		INCHES		ММ	
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	0.235	0.245	5.97	6.22			
В	0.205	0.215	5.21	5.46			
С	0.086	0.094	2.19	2.38			
D	0.025	0.035	0.64	0.89			
E	0.035	0.045	0.99	1.14			
F	0.250	0.265	6.35	6.73			
G	0.09	90	2.:	28			
J	0.018	0.023	0.48	0.58			
K	0.020		0.51				
S	0.370	0.410	9.40	10.42			
V	0.035	0.050	0.88	1.27			



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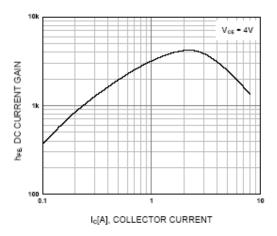


Figure 1. DC current Gain

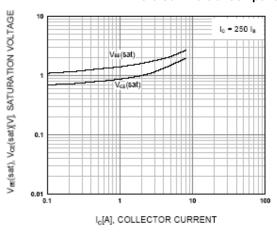


Figure 2. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

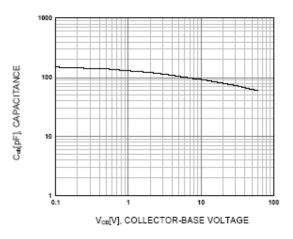


Figure 3. Collector Output Capacitance

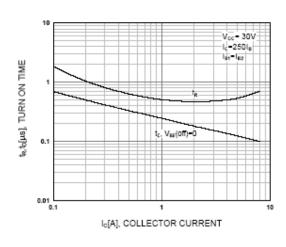


Figure 4. Turn On Time

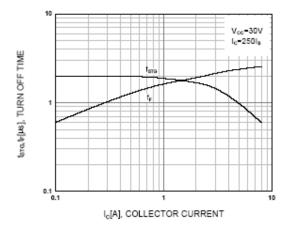


Figure 5. Turn Off Time

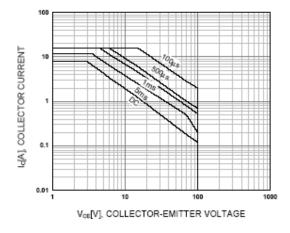


Figure 6. Safe Operating Area



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel2.5Kpcs/Reel

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