Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
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MJD122

Silicon NPN epitaxial planer Transistors

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

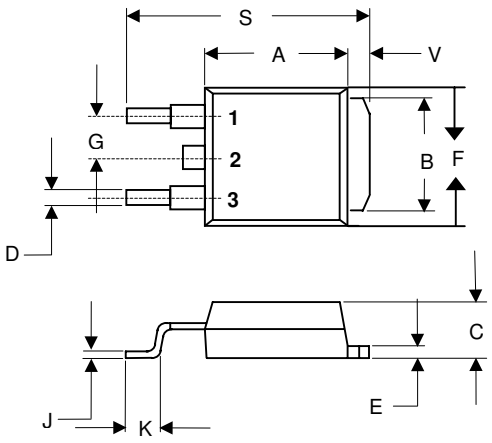
Maximum Ratings @ 25°C Unless Otherwise Specified

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
I_C	Collector Current-Continuous	8	A
P_C	Collector Dissipation	1.5	W
T_J	Operating Junction Temperature	150	℃
T_{STG}	Storage Temperature	-55 to +150	℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	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_B=80mAdc)	---	---	4.5	Vdc
V_{BE}	Base-Emitter Saturation Voltage (I_C=4Adc, V_{CE}=4Vdc)	---	---	2.8	Vdc
C_{ob}	Output Capacitance (V_{CB}=10Vdc, f=0.1MHz, I_E=0)	---	---	200	pF

DPACK



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

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.235	0.245	5.97	6.22	
B	0.205	0.215	5.21	5.46	
C	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	0.090		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	

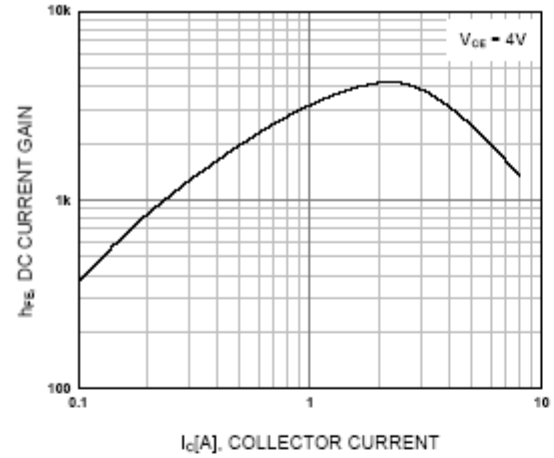


Figure 1. DC current Gain

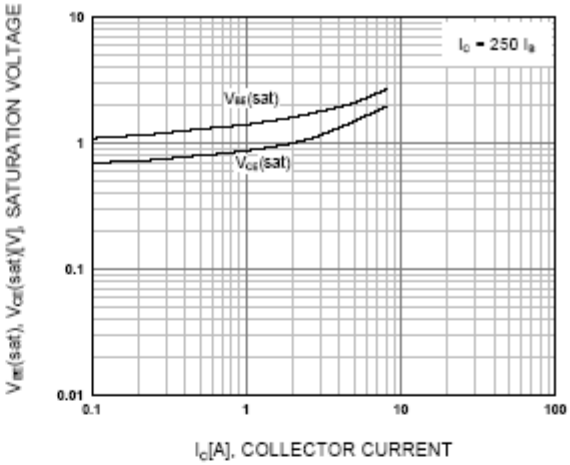


Figure 2. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

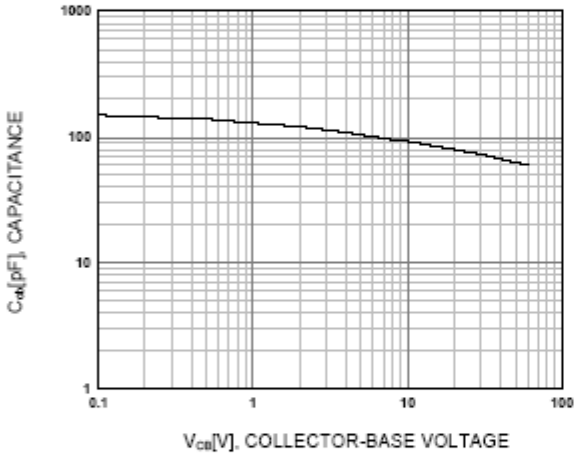


Figure 3. Collector Output Capacitance

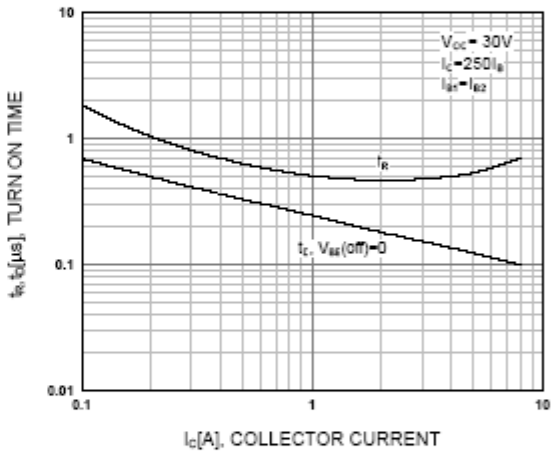


Figure 4. Turn On Time

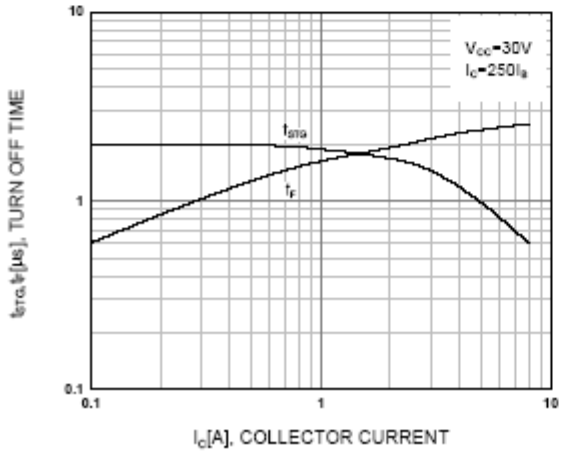


Figure 5. Turn Off Time

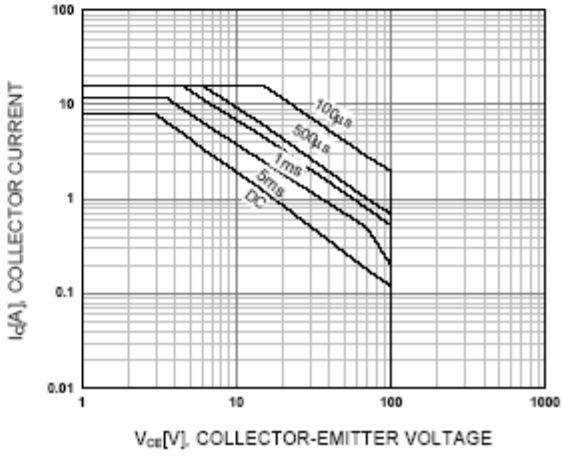


Figure 6. Safe Operating Area

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;2.5Kpcs/Reel

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