



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components

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

MJD112

Features

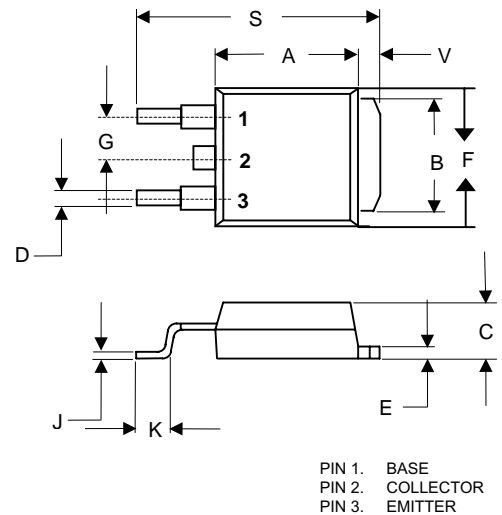
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material:Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- High DC Current Gain
- Built-in a damper diode at E-C
- Maximum Thermal Resistance: 125°C/W Junction to Ambient

Silicon NPN epitaxial planer Transistors

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	2	A
P _C	Collector Dissipation	1.0	W
T _J	Operating Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

DPACK



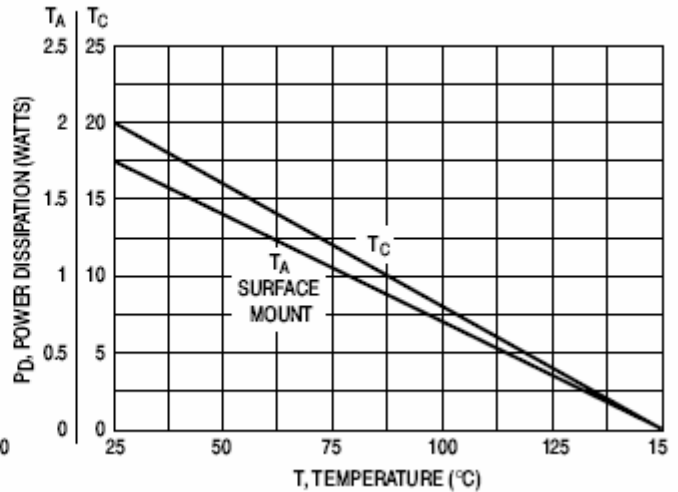
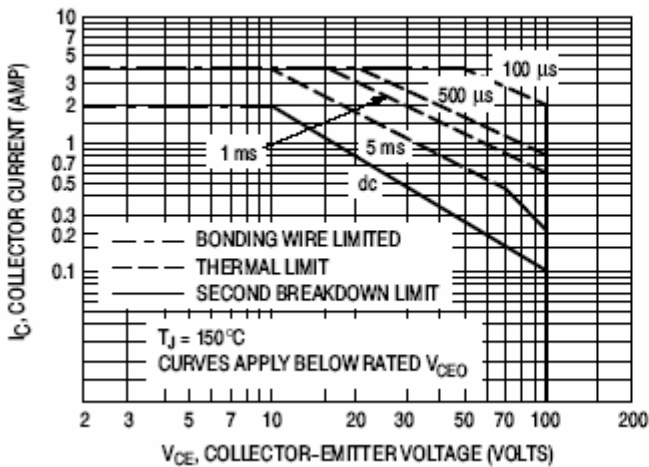
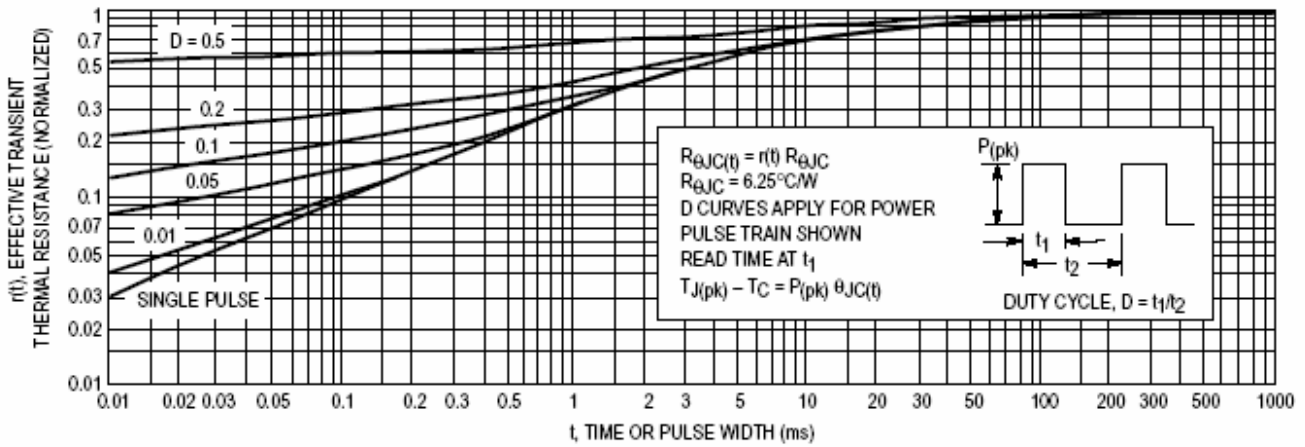
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =30mA, I _B =0)	100	---	---	Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =1mA, I _E =0)	100	---	---	Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =5mA, I _C =0)	5	---	---	Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =100Vdc, I _E =0)	---	---	20	nAdc
I _{CEO}	Collector emitter cutoff Current (V _{CE} =50Vdc, I _E =0)	---	---	20	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5Vdc, I _C =0)	---	---	2	mAdc
h _{FE}	DC Current Gain (I _C =500mA, V _{CE} =3Vdc) (I _C =2Adc, V _{CE} =3Vdc) (I _C =4Adc, V _{CE} =3Vdc)	500 1000 200	---	---	12000 ---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =2Adc, I _B =8mA) (I _C =4Adc, I _B =40mA)	---	---	2 3	Vdc
f _T	Transition frequency (V _{CE} =10Vdc, f=1MHz, I _C =0.75A)	25	---	---	MHZ
V _{BE}	Base-Emitter Saturation Voltage (I _C =2Adc, V _{CE} =3Vdc)	---	---	2.8	Vdc
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=0.1MHz, I _E =0)	---	---	100	pF

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

MJD112

Typical Characteristics





Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;2500pcs/Reel

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