

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

Maximum Ratings @ 25°C Unless Otherwise Specified

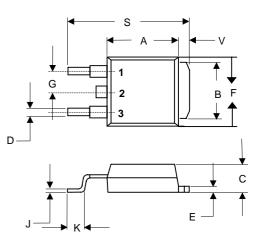
Symbol	Rating	Rating	Unit	
V_{CEO}	Collector-Emitter Voltage	100	100 V	
V_{CBO}	Collector-Base Voltage	100	V	
V_{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	2	Α	
P_{C}	Collector Dissipation	1.0	W	
TJ	Operating Junction Temperature	150	$^{\circ}\mathbb{C}$	
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}$ C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =30mAdc, I _B =0)				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 =5mAdc, 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 =500mAdc, 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 =8mAdc) (I_C =4Adc, I_B =40mAdc)			2	Vdc Vdc
f⊤	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

Silicon NPN epitaxial planer Transistors

DPACK

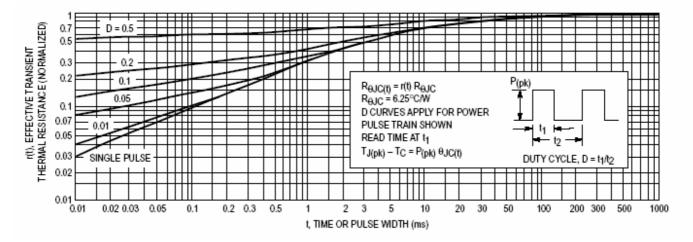


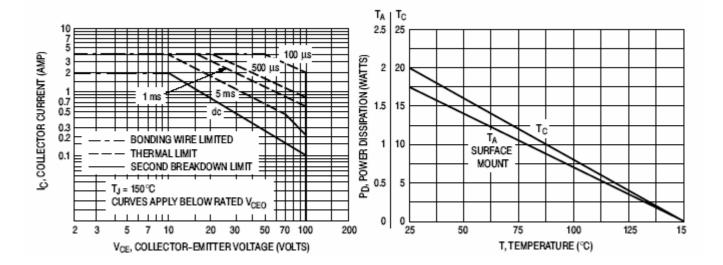
PIN 1. BASE PIN 2. COLLECTOR PIN 3. EMITTER

DIMENSIONS						
	INCHES		MM			
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	0.090		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 Micro Commercial Components Typical Characteristics







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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel2500pcs/Reel

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