

MJ900 – MJ901 PNP

COMPLEMENTARY POWER DARLINGTONS

The MJ900, MJ901, MJ1000 and MJ1001 are silicon epitaxial-bas transistors in monolithic Darlington configuration, and are mounted in JEDEC TO-3 metal case. They are intended for use in power linear and switching applications. Their complementary NPN types are the MJ1000 and MJ1001 respectively. Compliance to RoHS

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings			Value	Unit
V _{CBO}	Collector-Base Voltage		MJ900	-60	V
♥СВО			MJ901	-80	v
V _{CEO}	Collector-Emitter	1_0	MJ900	-60	V
	Voltage	I _B =0	MJ901	-80	v
V _{EBO}	Emitter-Base Voltage		MJ900	5.0	V
			MJ901	-5.0	
lc	Collector Current	I _{C(RMS)}	MJ900	8.0	А
			MJ901		
1	Base Current		MJ900	-0.1	А
I _B	base Current		MJ901		A
D	Power Dissipation	@ T _C < 25°	MJ900	90	W
P _T Pov	Power Dissipation	Derate above 25℃	MJ901	0.515	W/℃
т	lunction Tomporature		MJ900		
TJ	Junction Temperature		MJ901	65 to 1200	c
т	Storago Tomporatura		MJ900	-65 to +200	
Ts	Storage Temperature		MJ901]	

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thJ-C}	Thermal Resistance, Junction to Case	1.94	°C/W



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ELECTRICAL CHARACTERISTICS

TC=25℃ unless otherwise noted

Symbol	Ratings	Test Condition	(s)	Min	Тур	Мах	Unit
V _{CEO}	Collector-Emitter	I _C =-100 mA, I _B =0	MJ900 MJ901	-60 -80	-	-	V
	Breakdown Voltage (*)			-60	-	-	
ICEO	Collector Cutoff Current	V _{CE} =-30 V, I _B =0 V _{CE} =-40 V, I _B =0	MJ900 MJ901	-	-	-500	μA
I _{EBO}	Emitter Cutoff Current	V _{BE} =-5.0 V, I _C =0	MJ900 MJ901	_	-	-2.0	mA
		V _{CB} =-60 V, R _{BE} =1.0 kΩ	MJ900	-	-	1.0	-1.0 mA
		V _{CB} =-80 V, R _{BE} =1.0 kΩ	MJ901	-	-	1.0	
I _{CER} Collector-E Current	Collector-Emitter Leakage Current	V _{CB} =-60 V, R _{BE} =1.0 kΩ T _C =150℃	MJ900	-	-	5.0	
		V _{CB} =-80 V, R _{BE} =1.0 kΩ T _C =150℃	MJ901	-	-	-5.0	
	Collector-Emitter	I _C =-3.0 A, I _B =-2 mA	MJ900 MJ901	_	-	-2.0	V
V _{CE(SAT)}	saturation Voltage (*)	I _C =-8.0 A, I _B =-40 mA	MJ900 MJ901	-	-	-4.0	
V _F	Forward Voltage (pulse method)	I _F =-3 A	MJ900 MJ901	-	-1.8	-	V
V _{BE}	Base-Emitter Voltage (*)	I _C =-3.0 A, V _{CE} =-3.0V	MJ900 MJ901	-	-	-2.5	V
	DC Current Coin (*)	V_{CE} =-3.0 V, I _C =-3.0 A	MJ900 MJ901	1000	-	-	
H _{FE}	DC Current Gain (*)	V_{CE} =-3.0 V, I _C =-4.0 A	MJ900 MJ901	750	-	-	-

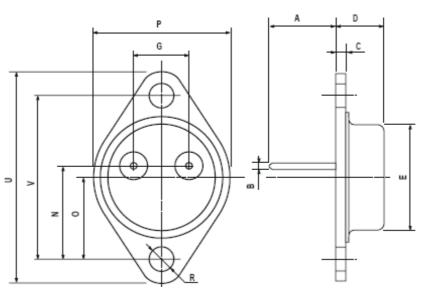
(*) Pulse Width $\approx 300~\mu s,$ Duty Cycle $\angle ~2.0\%$



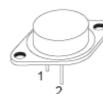
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MECHANICAL DATA CASE TO-3

DIMENSIONS (mm)				
	min	max		
A	11	13.10		
В	0.97	1.15		
С	1.5	1.65		
D	8.32	8.92		
F	19	20		
G	10.70	11.1		
N	16.50	17.20		
Р	25	26		
R	4	4.09		
U	38.50	39.30		
V	30	30.30		



Pin 1 :	Base
Pin 2 :	Emitter
Case :	Collector



Revised September 2012

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