

NPN MJ4033 - MJ4034 - MJ4035

MEDIUM POWER COMPLEMENTARY SILICON TRANSISTORS

They are silicon epitaxial-base NPN power transistors in monolithic Darlington configuration and are mounted in Jedec TO-3 metal case.

They are intented for use as output devices in complementary general purpose amplifier applications.

The complementary PNP types are the MJ4030, MJ4031, MJ4032. Compliance to RoHS

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings			Value	Unit
			MJ4033	60	
V _{CBO}	Collector-Base Voltage	I _E =0	MJ4034	80	V
			MJ4035	100	
	Collector-EmitterVoltage		MJ4033	60	
V _{CEO}		$I_B=0$	MJ4034	80	V
			MJ4035	100	
	Emitter-Base Voltage	I _C =0	MJ4033	5.0	V
V _{EBO}			MJ4034		
			MJ4035		
Ic	Collector Current			16	А
I _B	Base Current		0.5	Α	
P _T	Power Dissipation	@ T _C < 25°		150	W
TJ	Junction Temperature		200	°C	
Ts	Storage Temperature			-65 to +200	

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thJ-C}	Thermal Resistance, Junction to Case	1.17	°C/W



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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Conditi	on(s)	Min	Тур	Max	Unit
	Callagtan Fraittan		MJ4033	60	-	-	
V _{CEO}	Collector-Emitter Voltage (*)	$I_C=100$ mA, $I_B=0$	MJ4034	80	-	-	V
			MJ4035	100			
	Collector Cutoff Current	$V_{CE}=30 \text{ Vdc}, I_{B}=0$	MJ4033	-	-	3.0 r	
I _{CEO}		V _{CE} =40 Vdc, I _B =0	MJ4034	-	-		mΑ
		$V_{CE}=50 \text{ V}, I_{B}=0$	MJ4035	-	-		
			MJ4033				
I _{EBO}	Emitter Cutoff Current	V_{BE} =5.0 V, I_{C} =0	MJ4034	-	-	5.0	mA
			MJ4035				
	Collector-Emitter Leakage Current	V_{CB} =60 V R_{BE} =1.0 kΩ	MJ4033	-	-		
I _{CER}		V_{CB} =80 V R_{BE} =1.0 kΩ	MJ4034	-	- 1.0		
		V_{CB} =100 V R_{BE} =1.0 kΩ	MJ4035			-	mAdc
		$V_{CB}=60 \text{ V}$ $R_{BE}=1.0 \text{ k}\Omega$ $T_{C}=150^{\circ}\text{C}$	MJ4033	-	-	5.0	
		V_{CB} =80 V R_{BE} =1.0 kΩ T_{C} =150°C	MJ4034	-	-		
		V_{CB} =100 V R_{BE} =1.0 kΩ T_{C} =150°C	MJ4035				
V _{CE(SAT)}	Collector-Emitter saturation Voltage (*)	I _C =10 A I _B =40 mA	MJ4033 MJ4034 MJ4035	-	-	2.5	Vdc
		I _C =16 A I _B =80 mA	MJ4033 MJ4034 MJ4035	-	-	4.0	
V _{BE}	Base-Emitter Voltage (*)	I _C =10 A V _{CE} =3.0V	MJ4033 MJ4034 MJ4035	-	-	3	V
h _{FE}	DC Current Gain (*)	V _{CE} =10 V I _C =3.0 A	MJ4033 MJ4034 MJ4035	1000	-	-	-

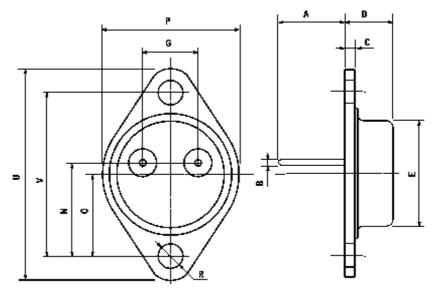
^(*) Pulse Width \approx 300 μ s, Duty Cycle \angle 2.0%



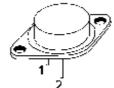
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MECHANICAL DATA CASE TO-3

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



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