MJE371

Plastic Medium-Power PNP Silicon Transistor

This device is designed for use in general-purpose amplifier and switching circuits. Recommended for use in 5 to 20 Watt audio amplifiers utilizing complementary symmetry circuitry.

Features

- DC Current Gain $h_{FE} = 40$ (Min) @ I_C = 1.0 Adc
- MJE371 is Complementary to NPN MJE521
- Pb-Free Package is Available*

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector–Emitter Voltage	V _{CEO}	40	Vdc
Collector-Base Voltage	V _{CB}	40	Vdc
Emitter-Base Voltage	V _{EB}	4.0	Vdc
Collector Current – Continuous – Peak	I _C	4.0 8.0	Adc
Base Current – Continuous	I _B	2.0	Adc
Total Power Dissipation @ T _C = 25°C Derate above 25°C	P _D	40 320	W mW/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction-to-Case	θ_{JC}	3.12	°C/W

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

	ELECTRICAL CHARACTERISTICS (T _C = 25°C unless otherwise noted)					
	Characteristic	Symbol	Min	Max	Unit	
C	OFF CHARACTERISTICS					
	Collector–Emitter Sustaining Voltage (I _C = 100 mAdc, I _B = 0) (Note 1)	V _{CEO(sus)}	40	-	Vdc	
	Collector-Base Cutoff Current (V _{CB} = 40 Vdc, I _E = 0)	Ісво	-	100	μAdc	
	Emitter–Base Cutoff Current (V _{EB} = 4.0 Vdc, I _C = 0)	I _{EBO}	ı	100	μAdc	
C	ON CHARACTERISTICS					
	DC Current Gain (Note 1) (I _C = 1.0 Adc, V _{CE} = 1.0 Vdc)	h _{FE}	40	_	-	

^{1.} Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2.0%.

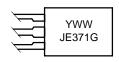


ON Semiconductor®

4 AMPERES POWER TRANSISTOR PNP SILICON 40 VOLTS, 40 WATTS



MARKING DIAGRAM



Y = Year

WW = Work Week

JE371 = Device Code

G = Pb-Free Package

ORDERING INFORMATION

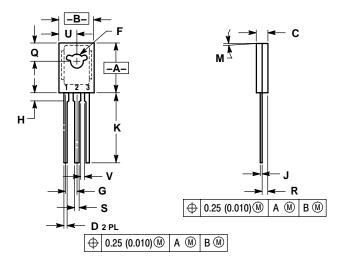
Device	Package	Shipping
MJE371	TO-225	500 Units/Box
MJE371G	TO-225 (Pb-Free)	500 Units/Box

^{*}For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MJE371

PACKAGE DIMENSIONS

TO-225 CASE 77-09 ISSUE Z



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. 077-01 THRU -08 OBSOLETE, NEW STANDARD 077-09.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.425	0.435	10.80	11.04	
В	0.295	0.305	7.50	7.74	
С	0.095	0.105	2.42	2.66	
D	0.020	0.026	0.51	0.66	
F	0.115	0.130	2.93	3.30	
G	0.094 BSC		2.39 BSC		
Н	0.050	0.095	1.27	2.41	
J	0.015	0.025	0.39	0.63	
K	0.575	0.655	14.61	16.63	
M	5° TYP		5° TYP		
Q	0.148	0.158	3.76	4.01	
R	0.045	0.065	1.15	1.65	
S	0.025	0.035	0.64	0.88	
U	0.145	0.155	3.69	3.93	
٧	0.040		1.02		

- STYLE 1:
 PIN 1. EMITTER
 2. COLLECTOR
 3. BASE