

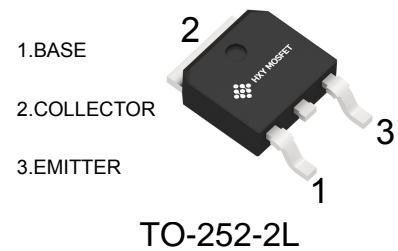


Features

- Medium Power Complementary Silicon Transistors

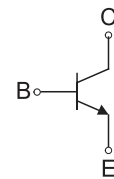
Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
MJD41C	TO-252-2L	Tape and Reel	2500



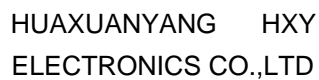
Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	3	A
P_C	Collector Power Dissipation	1	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 1mA, I_E = 0$	100		V
Collector-emitter breakdown voltage	$V_{CEO(sus)}$	$I_C = 1mA, I_B = 0$	100		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 1mA, I_C = 0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB} = 100V, I_E = 0$		0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 100V, I_B = 0$		0.5	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 6V, I_C = 0$		0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = 4V, I_C = 1A$	100	200	
	$h_{FE(2)}$	$V_{CE} = 4V, I_C = 3A$	25		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 1.5A, I_B = 0.15A$		0.5	
Transition frequency	f_T	$V_{CE} = 10V, I_C = 0.5A$ $f = 1MHz$	50		MHz



MJD41C
NPN Plastic-Encapsulate Transistors

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	0.483 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 TYP.		0.114 TYP.	
L2	1.400	1.700	0.055	0.067
L3	1.600 TYP.		0.063 TYP.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	



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