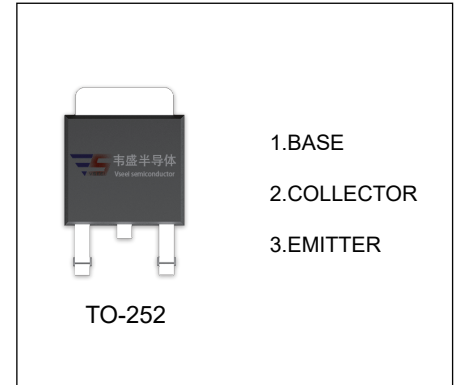


MJD42C TRANSISTOR (PNP)

FEATURES

- Designed for General Purpose Amplifier and Low Speed Switching Applications.
- Lead Formed for Surface Mount Applications in Plastic Sleeves (No Suffix)
- Straight Lead Version in Plastic Sleeves (“-1” Suffix)
- Lead Formed Version in 16 mm Tape and Reel (“T4” Suffix)
- Electrically Similar to Popular TIP41 and TIP42 Series
- Monolithic Construction With Built-in Base-Emmitter Resistors



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emmitter Voltage	-100	V
V _{EBO}	Emmitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-6	A
I _{CP} *	Collector Current -Pulse	-10	A
P _C	Collector Power Dissipation	1.25	W
T _J , T _{stg}	Operating Junction and Storage Temperature Range	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-100			V
Collector-emitter breakdown voltage	V _{CEO(sus)}	I _C =-30mA, I _B =0	-100			V
Emmitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CEO}	V _{CB} =-60V, I _E =0			-50	μA
Emmitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.5	mA
DC current gain	h _{FE(1)}	V _{CE} =-4V, I _C =-0.3A	30			
	h _{FE(2)}	V _{CE} =-4V, I _C =-3A	15		75	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-6A, I _B =-0.6A			-1.5	V
Base-emitter voltage	V _{BE}	V _{CE} =-4V, I _C =-6A			-2	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-500mA, f=1MHz	3			MHz

* Pulse Test: PW₃₀₀%, Duty Cycle₂%

Static Characteristic

