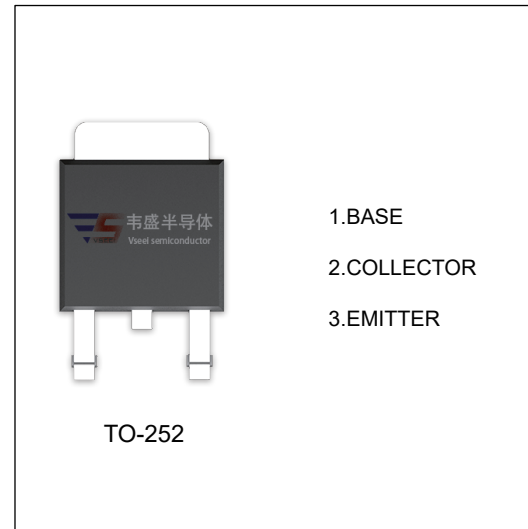


MJD122 TRANSISTOR (NPN)

FEATURES

- High DC Current Gain
- Electrically Similar to Popular TIP122
- Built-in a Damper Diode at E-C



MAXIMUM RATINGS (T_a=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	8	A
P _C	Collector Dissipation	1.5	W
T _J , T _{stg}	Operation 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 =1mA, I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =30mA, I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =3mA, I _C =0	5			V
Collector cut-off current	I _{CB0}	V _{CB} =100V, I _E =0			10	μA
Collector-emitter cut-off current	I _{CEO}	V _{CE} =50V, I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			2	mA
DC current gain	h _{FE(2)}	V _{CE} =4V, I _C =4A	1000		12000	
	h _{FE(3)}	V _{CE} =4V, I _C =8A	100			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =4A, I _B =16mA			2	V
	V _{CE(sat)2}	I _C =8A, I _B =80mA			4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =8A, I _B =80mA			4.5	V
Base-emitter voltage*	V _{BE}	V _{CE} =4V, I _C =4A			2.8	V
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=0.1MHz			200	pF

Typical Characteristics

MJD122

