

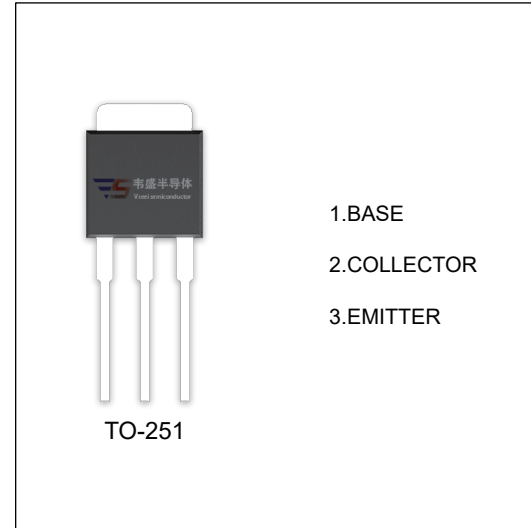
## MJD127 TRANSISTOR (PNP)

### FEATURES

- High DC Current Gain
- Electrically Similar to Popular TIP127
- Built-in a Damper Diode at E-C

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	-100	V
V <sub>CE0</sub>	Collector-Emitter Voltage	-100	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current -Continuous	-8	A
P <sub>C</sub>	Collector Power Dissipation	1.5	W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	°C



### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-1mA, I <sub>E</sub> =0	-100			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-30mA, I <sub>B</sub> =0	-100			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-10mA, I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> =-100V, I <sub>E</sub> =0			-10	μA
Collector-emitter cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> =-50V, I <sub>B</sub> =0			-10	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-5V, I <sub>C</sub> =0			-2	mA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =-4V, I <sub>C</sub> =-4A	1000		12000	
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-4V, I <sub>C</sub> =-8A	100			
Collector-emitter saturation voltage	V <sub>CE(sat) 1*</sub>	I <sub>C</sub> =-4A, I <sub>B</sub> =-16mA			-2	V
	V <sub>CE(sat) 2*</sub>	I <sub>C</sub> =-8A, I <sub>B</sub> =-80mA			-4	V
Base-emitter saturation voltage	V <sub>BE(sat) *</sub>	I <sub>C</sub> =-8A, I <sub>B</sub> =-80mA			-4.5	V
Base-emitter voltage	V <sub>BE *</sub>	V <sub>CE</sub> =-4V, I <sub>C</sub> =-4A			-2.8	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=0.1MHz			300	pF

\*Pulse Test: Pulse Width≤380μs, Duty Cycle≤2%

# Typical Characteristics

# MJD127

