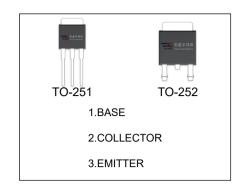


MJD117 TRANSISTOR (PNP)

FEATURES

- High DC Current Gain
- Low Collector-Emitter Saturation Voltage
- Complementary to MJD112



MAXIMUM RATINGS (T_a=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	-5	V
Ic	Collector Current	-2	А
Pc	Collector Power Dissipation	1.75	W
R _{θJA}	Thermal Resistance From Junction To Ambient	71	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	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 =-5mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-80V,I _E =0			-10	μA
Collector cut-off current	I _{CEO}	V _{CE} =-80V,I _B =0			-10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-2	mA
	h _{FE(1)}	V _{CE} =-3V, I _C =-0.5A	500			
DC current gain	h _{FE(2)}	V_{CE} =-3V, I_{C} =-2A	1000		12000	
	h _{FE(3)} *	V_{CE} =-3V, I_{C} =-4A	200			
Collector omittor acturation valtage	V _{CE(sat} *	I _C =-2A,I _B =-8mA			-2	V
Collector-emitter saturation voltage		I _C =-4A,I _B =-40mA			-3	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =-4A,I _B =-40mA			-4	V
Base-emitter voltage	V _{BE} *	V _{CE} =-3V, I _C =-2A			-2.8	V
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0, f=0.1MHz			200	pF
Transition frequency	f⊤	V _{CE} =-10V,I _C =-0.75A, f=1MHz	25			MHz

^{*}Pulse test