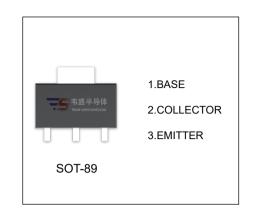


VS303PL TRANSISTOR (PNP)

FEATURES

- Small Flat Package
- High DC Current Gain
- Ultra Low Collector-Emitter Saturation Voltage

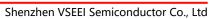


MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-3	Α
Pc	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	250	°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 = -0.1mA,I _E =0	-30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-35V,I _E =0			-100	nA
Collector cut-off current	I _{CES}	V _{CES} =-35V			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V,I _C =0			-100	nA
		V _{CE} =-1.5V, I _C =-1A	100			
DC current gain	h _{FE} *	V _{CE} =-1.5V, I _C =-1.5A	100		400	
		V _{CE} =-3V, I _C =-2A	100			
		I _C =-0.8A,I _B =-26mA			-0.15	V
Collector emitter esturation voltage	V _{CE(sat)} *	I _C =-1.2A,I _B =-40mA			-0.2	V
Collector-emitter saturation voltage		I _C =-2A,I _B =-66.6mA			-0.25	V
		I _C =-3A,I _B =-100mA			-0.4	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =-1.2A,I _B =-40mA			-1	V
Dase-ellitter saturation voitage	V BE(sat)	I _C =-3A,I _B =-100mA			-1.2	V
Base-emitter voltage	V _{BE} *	V _{CE} =-3V, I _C =-2A			-1	V





Transition frequency	f_{T}	V_{CE} =-5V, I_{C} =-100mA, f=100MHz	100			MHz
Collector input capacitance	C _{ib}	V _{EB} =-0.5V,I _C =0, f=1MHz			650	pF
Collector outtput capacitance	C _{ob}	V_{CB} =-3V, I_{E} =0, f=1MHz			100	pF
Turn on time	t _{on}	V_{CC} =-10V, I_{C} =-1A, I_{B1} = -100mA, R_{L} =3 Ω		35		ns
Turn off time	t _{off}	V_{CC} =-10V, I_{C} =1A, I_{B1} = I_{B2} =-100mA, R_{L} =3 Ω		225		ns

^{*}Pulse width=300 μ s, Duty cycle < 2%.