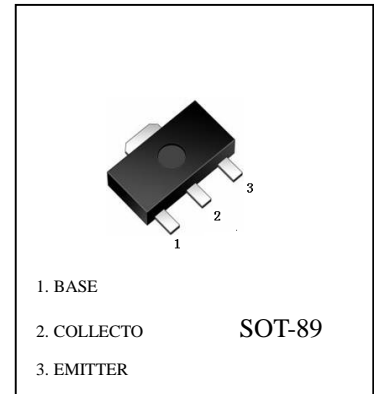


FEATURES

- Low saturation voltage
- High speed switching time
- Small flat package
- $P_C=1.0$ to $2.0W$ (mounted on ceramic substrate)
- Complementary to 2SC2873

2SA1213 (PNP)



Maximum Ratings (Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CB0}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-2000	mA
Collector Power dissipation	P_C	500	mW
Storage Temperature	T_{stg}	-55to +150	°C

ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V_{CEO}	$I_C=-10mA, I_B=0$	-50			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50V, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE}=-2V, I_C=-0.5A$	70		240	
		$V_{CE}=-2V, I_C=-2.0A$	20			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-1A, I_B=-0.05A$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-1A, I_B=-0.05A$	-0.5		-1.2	V
Transition frequency	f_T	$V_{CE}=-2V, I_C=-0.5A$		100		MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		40		pF

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	70-140	120-240
Marking	NO	NY

2SA1213 Typical Characteristics

