

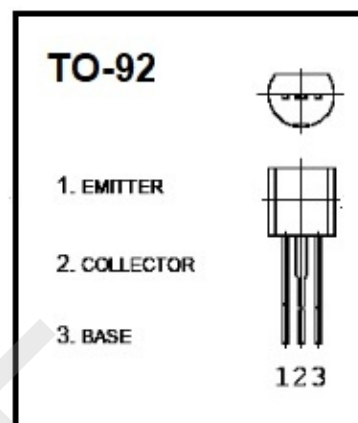
2SA1270

Features

- Complementary to 2SC3202
- Package:TO-92

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	-35	V
Collector-emitter voltage	BV_{CEO}	-30	V
Emitter-base voltage	BV_{EBO}	-5	V
Collector current	I_{CM}	-500	mA
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -50\mu A, I_E = 0$	-35			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -50\mu A, I_C = 0$	-5			V
collector-base cut-off current	I_{CBO}	$V_{CB} = -35V, I_E = 0$			-0.1	μA
emitter-base cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	μA
DC current gain	H_{FE}	$V_{CE} = -1V, I_C = -100mA$	70		240	
		$V_{CE} = -6V, I_C = -400mA$	25			
collector-emitter saturation voltage	V_{CESAT}	$I_C = -100mA, I_B = -10mA$			-0.25	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C = -100mA, I_B = -10mA$			-1.0	
Transition frequency	f_T	$V_{CE} = -6V, I_C = -20mA$	150	200		MHz
Output Capacitance	C_{ob}	$V_{CE} = -6V, I_C = -0mA, f = 1MHz$		7		pF

Classification of H_{FE}

Rank	O	Y
Range	70-140	120-240