

Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

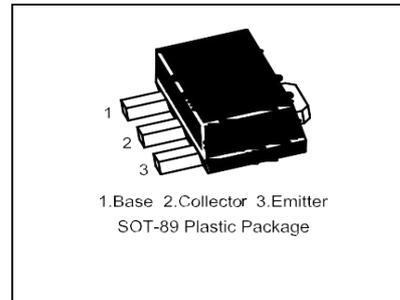
FEATURES

Compliment to 2SA2071

MARKING: Y2

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-3	A
P_C	Collector Power Dissipation	0.5	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C}/\text{W}$
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~150	$^{\circ}\text{C}$



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

Parameter	Symbol	Test conditions	Min	Typ.	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}, I_E = 0$	-60	-	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1\text{mA}, I_B = 0$	-60	-	-	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu\text{A}, I_C = 0$	-6	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = -40\text{V}, I_E = 0$	-	-	-1.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4\text{V}, I_C = 0$	-	-	-1.0	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -2\text{V}, I_C = -100\text{mA}$	120	-	270	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$	-	-0.2	-0.5	V
Transition frequency	f_T	$V_{CE} = -10\text{V}, I_C = -100\text{mA}$ $f = 1\text{MHz}$	-	180	-	MHz
output capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0\text{A}$ $f = 1\text{MHz}$	-	50	-	pF
Turn-on time	T_{on}	$I_C = -3\text{A},$ $I_{B1} = -300\text{mA},$ $I_{B2} = 300\text{mA},$ $V_{CC} = -25\text{V},$ $R_L = 8.3\Omega,$ See test circuit	-	20	-	ns
Storage time	T_{stg}		-	150	-	ns
Fall time	T_f		-	20	-	ns

CLASSIFICATION OF $h_{FE(1)}$

Rank	Q	
HFE	120-270	

