

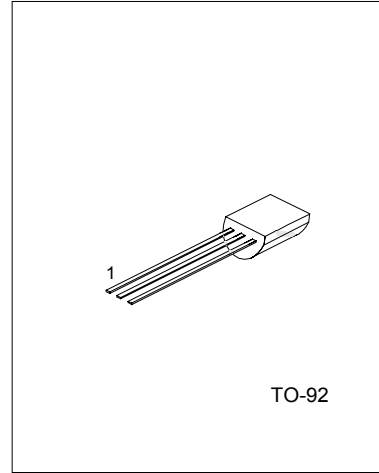
PNP HIGH-VOLTAGE TRANSISTORS

FEATURES

*Low feedback capacitance.

APPLICATIONS

*Intended for use in video output stages of black and white and color television receivers.



1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS

PARAMETERS	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-350	V
Collector-emitter voltage	V _{CEO}	-350	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current (DC)	I _c	-100	mA
Peak collector current	I _{cP}	-200	mA
Peak base current	I _{BP}	-100	mA
Collector dissipation T _a ≅ 25°C (note 1)	P _c	830	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-65~+150	°C
Operating ambient temperature	T _{amb}	-65~+150	°C

Note 1: transistor mounted on a printed-circuit board.

THERMAL CHARACTERISTICS

PARAMETERS	SYMBOL	CONDITIONS	VALUE	UNIT
Thermal resistance from junction to ambient	R _{th j-a}	NOTE 1	150	K/W

ELECTRICAL CHARACTERISTICS (T_j=25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector cut-off current	I _{cBO}	V _{CB} = -300V, I _E =0		-20	nA
		V _{CB} = -200V, I _E =0, T _j =150°C		-20	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _c =0		-100	nA
DC current gain	h _{FE}	V _{CE} = -20V, I _c = -25mA	50		
		V _{CE} = -20V, I _c = -40mA	20		

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -20\text{mA}$, $I_B = -2\text{mA}$		-0.5	V
collector capacitance	C_c	$V_{CB} = -20\text{V}$, $I_E = I_C = 0$, $f = 1\text{MHz}$		4	pF
Feedback capacitance	C_{re}	$V_{CB} = -30\text{V}$, $I_C = I_E = 0$, $f = 1\text{MHz}$		2.5	pF
Transition frequency	f_T	$V_{CE} = -10\text{V}$, $I_C = -10\text{mA}$, $f = 100\text{MHz}$	70	110	MHz

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