

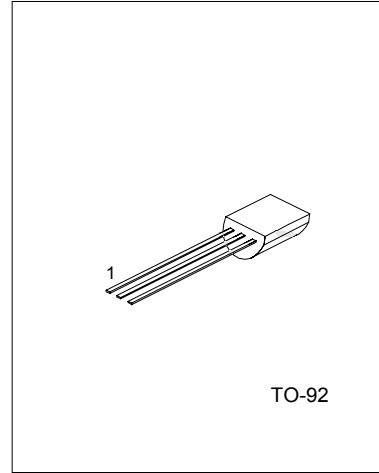
PNP HIGH-VOLTAGE TRANSISTORS

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 <sub>CB0</sub>	-350	V
Collector-emitter voltage	V <sub>CEO</sub>	-350	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current (DC)	I <sub>c</sub>	-100	mA
Peak collector current	I <sub>cP</sub>	-200	mA
Peak base current	I <sub>BP</sub>	-100	mA
Collector dissipation T <sub>a</sub> ≅ 25°C (note 1)	P <sub>c</sub>	830	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-65~+150	°C
Operating ambient temperature	T <sub>amb</sub>	-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 <sub>th j-a</sub>	NOTE 1	150	K/W

ELECTRICAL CHARACTERISTICS (T<sub>j</sub>=25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector cut-off current	I <sub>cBO</sub>	V <sub>CB</sub> = -300V, I <sub>E</sub> =0		-20	nA
		V <sub>CB</sub> = -200V, I <sub>E</sub> =0, T <sub>j</sub> =150°C		-20	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = -5V, I <sub>c</sub> =0		-100	nA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -20V, I <sub>c</sub> = -25mA	50		
		V <sub>CE</sub> = -20V, I <sub>c</sub> = -40mA	20		

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

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