



PNP POWER TRANSISTORS

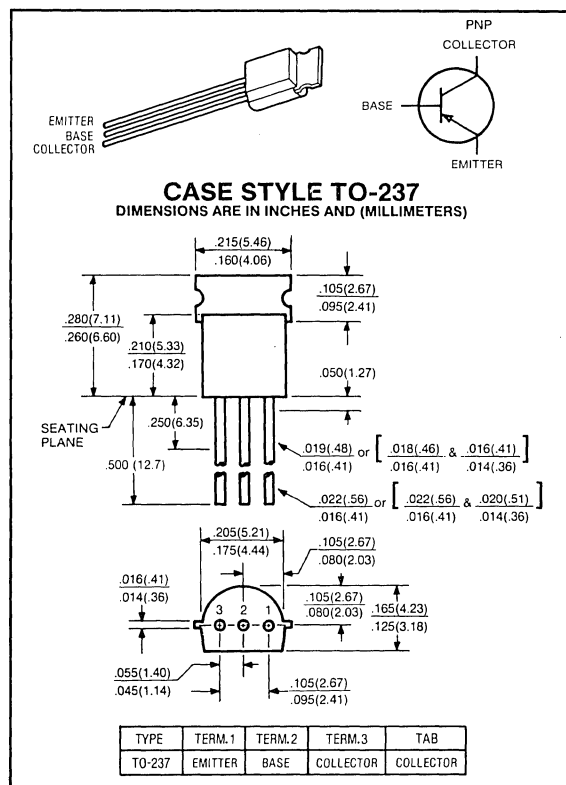
COMPLEMENTARY TO THE
2N6716, 17/92GU05, 06 SERIES

**92GU55,56
2N6728,29**

**-60(-80) VOLTS
2 AMPS, 1.2 WATTS**

Applications:

- High V_{CE} ratings:
92GU55 = 60V min. V_{CEO}
92GU56 = 80V min. V_{CEO}
- Exceptional power-to-price ratio



maximum ratings ($T_A = 25^\circ C$) (unless otherwise specified)

RATING	SYMBOL	92GU55/2N6728	92GU56/2N6729	UNITS
Collector-Emitter Voltage	V_{CEO}	-60	-80	Volts
Collector-Base Voltage	V_{CB}	-60	-80	Volts
Emitter Base Voltage	V_{EB}	-4.0	-4.0	Volts
Collector Current — Continuous	I_C	-2.0	-2.0	A
Total Power Dissipation @ $T_A = 25^\circ C$	P_{DP}^*	1.2	1.2	Watts
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-55 to +150	-55 to +150	$^\circ C$

thermal characteristics

Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	167	167	$^\circ C/W$
Thermal Resistance, Junction to Case	$R_{\theta JC}$	50	50	$^\circ C/W$

* P_{DP} = Practical Power Dissipation, i.e., that power which can be dissipated with the device installed in a typical manner on a printed circuit board with total copper run area equal to 1.0 in.² minimum.

electrical characteristics ($T_A = 25^\circ\text{C}$) (unless otherwise specified)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX	UNIT
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off characteristics

Collector-Emitter Sustaining Voltage ($I_C = -1.0\text{mA}$, $I_B = 0\text{A}$)	92GU55,2N6728 92GU56,2N6729	$V_{CEO(sus)}$	-60 -80	— —	— —	Volts
Collector Cut-off Current ($V_{CB} = -40\text{V}$, $I_E = 0$) ($V_{CB} = -50\text{V}$, $I_E = 0$)	92GU55,2N6728 92GU56,2N6729	I_{CBO}	— —	— —	-0.1 -0.1	μA
Emitter Cutoff Current ($V_{EB} = -4\text{V}$, $I_C = 0$)		I_{EBO}	—	—	-100	μA

on characteristics

DC Current Gain ($I_C = -50\text{mA}$, $V_{CE} = -1\text{V}$) ($I_C = -250\text{mA}$, $V_{CE} = -1\text{V}$) ($I_C = -500\text{mA}$, $V_{CE} = -1\text{V}$)		h_{FE}	-80 -50 -20	— — —	— — —	— — —
Base-Emitter On Voltage ($I_C = -250\text{mA}$, $V_{CE} = -1\text{V}$)		$V_{BE(on)}$	—	—	-1.2	V
Base-Emitter Saturation Voltage ($I_C = -250\text{mA}$, $I_B = -10\text{mA}$) ($I_C = -250\text{mA}$, $I_B = -25\text{mA}$)		$V_{BE(sat)}$	— —	— —	-0.5 -0.35	Volts

dynamic characteristics

Collector Capacitance ($V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$)		C_{BO}	—	—	30	pF
Current-Gain Bandwidth Product ($I_C = -200\text{mA}$, $V_{CE} = -5\text{V}$, $f = 100\text{MHz}$)		f_T	50	—	—	MHz