



PNP POWER TRANSISTORS

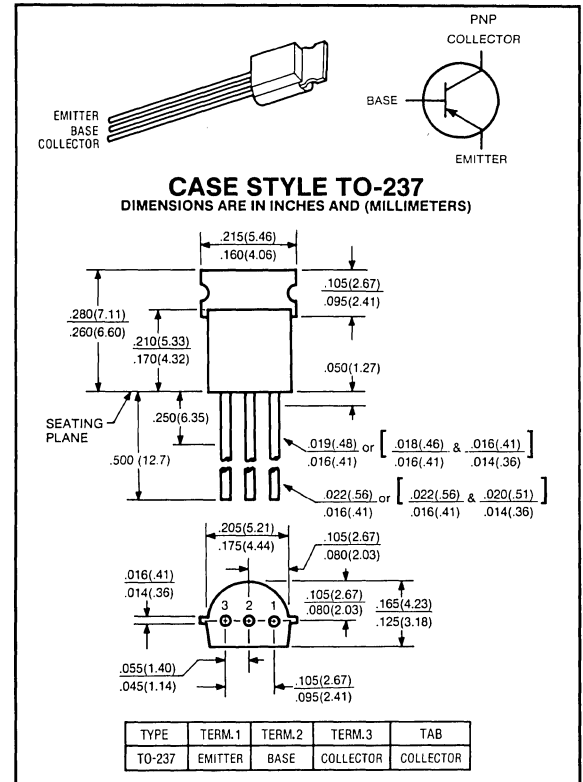
COMPLEMENTARY TO THE
2N6714, 15/92GU01, 01A SERIES

**92GU51,51A
2N6726,27**

**-30-(-40) VOLTS
2 AMPS, 1.2 WATTS**

Applications:

- Class "B" audio outputs/drivers.
- General purpose switching and lamp drive in industrial and automotive circuits.



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

RATING	SYMBOL	92GU51/2N6726	92GU51A/2N6727	UNITS
Collector-Emitter Voltage	V_{CEO}	-30	-40	Volts
Collector-Base Voltage	V_{CB}	-40	-50	Volts
Emitter Base Voltage	V_{EB}	-5	-5	Volts
Collector Current — Continuous	I_C	-2.0	-2.0	A
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	P_{DP}^*	1.2	1.2	Watts
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-55 to +150	-55 to +150	$^\circ\text{C}$

thermal characteristics

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

* 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 ($I_C = -10\text{mA}$, $I_B = 0\text{A}$)	92GU51,2N6726 92GU51A,2N6727	$V_{CEO(sus)}$	-30 -40	— —	— —	Volts
Collector Cut-off Current ($V_{CB} = -40\text{V}$, $I_E = 0\text{A}$) ($V_{CB} = -50\text{V}$, $I_E = 0\text{A}$)		I_{CBO}	— —	— —	-1 -1	μA
Emitter Cutoff Current ($V_{EB} = -5\text{V}$, $I_C = 0\text{A}$)		I_{EBO}	—	—	-1	μA

on characteristics

DC Current Gain ($I_C = -10\text{mA}$, $V_{CE} = -1\text{V}$) ($I_C = -100\text{A}$, $V_{CE} = -1\text{V}$) ($I_C = -100\text{A}$, $V_{CE} = -1\text{V}$)		h_{FE}	-55 -60 -50	— — —	— — —	— — —
Collector-Emitter Saturation Voltage ($I_C = -1\text{A}$, $I_B = -100\text{mA}$)		$V_{CE(sat)}$	—	—	-5	V
Base-Emitter On Voltage ($I_C = -1\text{A}$, $V_{CE} = -1\text{V}$)		$V_{BE(on)}$	—	—	-1.2	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 ($I_C = -50\text{mA}$, $V_{CE} = -10\text{V}$, $f = 1\text{MHz}$)		f_T	50	—	—	MHz