PNP POWER TRANSISTORS

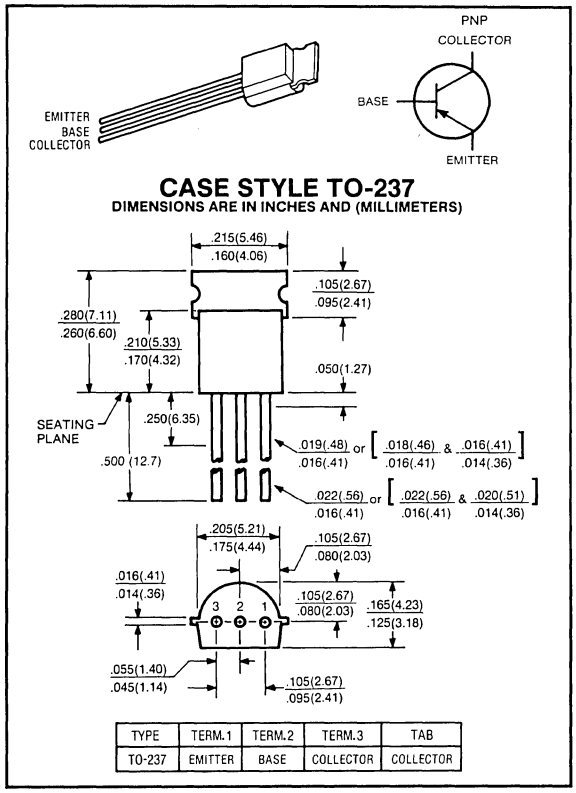
COMPLEMENTARY TO THE
2N6714, 15/92GU01, 01A SERIES

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°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°C	P_{DP}*	1.2	1.2	Watts
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-55 to +150	-55 to +150	°C

thermal characteristics

Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	167	167	°C/W
Thermal Resistance, Junction to Case	$R_{\theta JC}$	50	50	°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° C) (unless otherwise specified)

CHARACTERISTIC		SYMBOL	MIN	TYP	MAX	UNIT
off characteristics						
Collector-Emitter Sustaining Voltage (I_C = -10mA, I_B = 0A)	92GU51,2N6726 92GU51A,2N6727	$V_{CEO(sus)}$	-30 -40	— —	— —	Volts
Collector Cut-off Current	(V_{CB} = -40V, I_E = 0A) (V_{CB} = -50V, I_E = 0A)	I_{CBO}	— —	— —	-.1 -.1	μA
Emitter Cutoff Current (V_{EB} = -5V, I_C = 0A)		I_{EBO}	—	—	-.1	μA
on characteristics						
DC Current Gain (I_C = -10mA, V_{CE} = -1V) (I_C = -100A, V_{CE} = -1V) (I_C = -100A, V_{CE} = -1V)		h_{FE}	 -55 -60 -50	 — — —	 — — —	 — —
Collector-Emitter Saturation Voltage (I_C = -1A, I_B = -100mA)		$V_{CE(sat)}$	—	—	-.5	V
Base-Emitter On Voltage (I_C = -1A, V_{CE} = -1V)		$V_{BE(on)}$	—	—	-1.2	Volts
dynamic characteristics						
Collector Capacitance (V_{CB} = -10V, I_E = 0, f = 1MHz)		C_{BO}	—	—	30	pF
Current-Gain Bandwidth Product (I_C = -50mA, V_{CE} = -10V, f = 1MHz)		f_T	50	—	—	MHz