

Germanium Transistor

XA101

12V / 10mA

DATASHEET

OEM – Ediswan Mazda

Source: Ediswan Mazda Databook 1957/58

GERMANIUM JUNCTION TRANSISTORS														37
Type No.	Use	ABSOLUTE RATINGS AT 45°C					CHARACTERISTICS AT 25°C							
		V _{ce} (max. pk.)	V _{ce} (max. mean)	V _{cb} (max. pk.)	P _c (max.)	T _j (max.)	I _{c(o)}	I _{e(o)}	I _{ce(o)}	Thermal resistance	f _c cut- off	α	β	
XA101*	L.F. Amp. to 500 kc/s.	-12	-10	-12	20	55	10 ₁	10 ₂	70 ₄	0.5	5.0 ₂	0.97 ₂	35 ₂	
XA102*	L.O. and F.C. to 2 Mc/s.	-12	-10	-12	20	55	10 ₁	10 ₂	70 ₄	0.5	8.0 ₂	0.975 ₂	40 ₂	
XB102	L.F. Amp. or Driver	-20	-10		30	55	10 ₁		200 ₄			0.968 ₂	30 ₂	
XB103	L.F. Amp. or Driver	-20	-10		30	55	10 ₁		200 ₄			0.985 ₂	66 ₂	
XC101	Class B P.P. Output	-20	-10		83	70	10 ₁		200 ₄	0.3†		0.985 ₂	66 ₂	

NOTES:

(1) At V_{cb} = -12 volts
 (2) At V_{cb} = -15 volts
 (3) At V_{cb} = -12 volts
 (4) At V_{ce} = -5 volts
 (5) At V_c = -5 volts, I_c = -1.0 mA
 (6) At V_c = -6 volts, I_c = -8.0 mA

* r_{bb'} = 75 ohms and C_{b'c} = 13.5 pF in equivalent π network.
 † 0.21 when clamped to 12 square inches (minimum) of aluminium plate.

OUTLINE AND CONNECTIONS

The technical drawings show the physical dimensions and electrical connections of the XA101 transistor. The top view shows a circular package with a diameter of 0.4 inches (±0.01 inches). The side view shows a height of 0.147 inches (±0.005 inches) and a base diameter of 0.290 inches (±0.005 inches). The connection view shows three leads labeled 'e', 'b', and 'c' with a diameter of 0.010 inches. A 'WHITE SPOT' is indicated on the top surface of the package.