

GAE

GREAT AMERICAN ELECTROINCS

BLX-96

Silicon NPN UHF transistor BLX-96 is designed for linear amplifier applications in commercial and industrial equipment (for TV re-transmitters specifically).

Output Power: 0.5 Watt
Frequency Range: 40-860 Mhz
Voltage: 25 V
Package Type: 3/8 Helicopter
Common Base Configuration
Ballast Emitter Resistors
Aluminum Metalization
Class A

Electrical Characteristics ($T_{CASE}=40^{\circ}C$)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
$P_{out}(PEP)$	$f_o = 860 \text{ Mhz} / V_{cc}=25V / I_C=0.2A$	0.5			W
G_p	$f_o = 860 \text{ Mhz} / V_{cc}=25V / P_{out}=0.5W$	6			dB
IMD(3 tones)	$f_o = 860 \text{ Mhz} / V_{cc}=25V / P_{out}=0.5W$			-60	dB
	$I_C=0.2A$				

ABSOLUTE MAXIMUM RATINGS ($T_{CASE} = 25^{\circ}C$)

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Continuous Collector Current	0.5	A
P_C	Collector Power Dissipation	8.7	W
T_j	Junction Temperature	160	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	13.8*	$^{\circ}C/W$

* $T_{CASE} = 40^{\circ}C$

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