GAE GREAT AMERICAN ELECTROINCS

TPV-595A

Silicon NPN UHF transistor TPV-3595A is designed for Super Linear amplifier applications in different radio systems, commercial and industrial (for TV re-transmitters specifically).

Output Power:	8 Watt
Frequency Range:	470-860 Mhz
Voltage:	25 V
Package Type:	RF MOD (4 lead)

Common Base Configuration
Diffused Emitter Resistors
Gold Metalization
Class A

Electrical Characteristics (T_{CASE}=40°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}(PEP)	f_O = 860 Mhz/V_{cc}=25/I_C=2 X 0.9A	8			W
G_p	f_O = 860 Mhz/V_{cc}=25V/P_{out}=8W	8.5			dB
IMD(3 tones)	f_O = 860 Mhz/V_{cc}=25V/P_{out}=8W			-58	dB
	I_C=2 X 0.9A				

ABSOLUTE MAXIMUM RATINGS (T_{CASE} = 25°C)

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CER}	Collector-Emitter Voltage R_{EB}=10Ω	40	V
V_{EBO}	Emitter-Base Voltage	4	V
Ic	Continuous Collector Current	5	A
P_C	Collector Power Dissipation Continuous	50*	W
T_j	Junction Temperature	200	°C
R_{th}(j-c)	Junction-Case Thermal Resistance	2.5	°C/W

T_{CASE} = 75°C