

# GAE

# GREAT AMERICAN ELECTROINCS

## BLY-38/C3-12

Silicon NPN power VHF/UHF transistor BLY-38/C3-12 is designed for large signal amplifier and multiplier applications in portable and land mobile FM and AM equipment.

Output Power: 2 Watt  
Frequency Range: 200-400 Mhz  
Voltage: 12.6 V  
Package Type: 8/32 Helicopter  
Common Emitter Configuration  
Individual Emitter Resistors  
Aluminum Metalization

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
$P_{out}$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{IN}=0.32W$	2			W
$G_p$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{out}=2W$	8			dB
$\lambda_c$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{out}=2W$	60	65		%

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

SYMBOL	PARAMETERS	VALUE	UNIT
$V_{CER}$	Collector-Emitter Voltage $R_{EB} \leq 100\Omega$	36	V
$V_{EBO}$	Emitter-Base Voltage	4	V
$I_c$	Continuous Collector Current	0.5	A
$P_C$	Collector Power Dissipation	5.5*	W
$T_j$	Junction Temperature	150	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	20	$^{\circ}C/W$

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