

## BLY-53/C12-12

Silicon NPN power VHF/UHF transistor BLY-53/C12-12 is designed for large signal amplifier and multiplier applications in portable and land mobile FM and AM equipment.

Output Power: 7 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
$P_{out}$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{IN}=1.4W$	2			W
$G_p$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{out}=7W$	8			dB
$\lambda_c$	$f_o = 320 \text{ Mhz}/V_{cc}=12.6V/P_{out}=7W$	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	1	A
$P_C$	Collector Power Dissipation	11*	W
$T_j$	Junction Temperature	150	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	10	$^{\circ}C/W$

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