

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
λ_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 $T_{CASE} = 40^{\circ}C$