

# CA3023

## VIDEO AND WIDE-BAND AMPLIFIER

General-purpose amplifier used in gain-controlled linear amplifier, AM/FM if amplifier, video amplifier, and limiter applications. 12-lead "TO-5" package; Outline No. 2. For schematic diagrams and characteristics curves, see Figs. 119 through 133. For maximum ratings, refer to type CA3021.

### TYPICAL CHARACTERISTICS (At ambient temperature = 25°C, $V_{CC} = +6V$ , $V_{EE} = 0$ )

Device Dissipation .....	$P_T$	35	mW
Quiescent Output Voltage .....	$V_O$	1.3	V
AGC Source Current ( $V_{AGC} = 6V$ ) .....	$I_{AGC}$	0.8	mA
Voltage Gain ( $f = 5$ MHz) .....	A	53	dB
-3-dB Bandwidth .....	BW	16	MHz
Input Resistance ( $f = 10$ MHz) .....	$R_{in}$	300	$\Omega$
Input Capacitance ( $f = 10$ MHz) .....	$C_{in}$	13	pF
Output Resistance ( $f = 10$ MHz) .....	$R_{out}$	100	$\Omega$
Noise Figure ( $f = 1$ MHz) .....	NF	6.5	dB
AGC Range ( $f = 10$ MHz) .....	AGC	33	dB
Useful Frequency Range .....		dc to 40	MHz
Maximum Output Voltage ( $f = 10$ MHz) .....	$v_{out}$	0.5	$V_{rms}$