

# THIN FILM SURFACE MOUNT AMPLIFIER

### **DESCRIPTION:**

The ASMA-201 is a 50 Ohm silicon transistor amplifier featuring internal biasing and feedback networks.

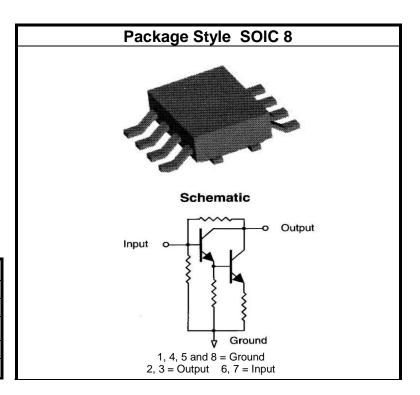
The ASMA-201 will find application in RF/Microwave systems from 1 to 500 MHz requiring superior broadband, high linearity and excellent stability.

#### Features:

- Stable 50 Ohm Gain Block
- Cascadable Broadband Performance
- Single Positive Supply Operation
- Replacement for RF Products SMA-201

**Maximum Ratings** Tc = 25°C

SYMBOL	RATING	UNITS	
ΙD	325	mA	
Pin	P <sub>IN</sub> +27		
ΤJ	+175	°C	
Tsoloer	+260 °C for 10 Seconds	°C	
T stg	-65 to +150	°C	



#### CHARACTERISTICS In = .250 A

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS	
BW	Frequency Range		1	500	MHz	
Gp	Small Signal Power Gain	12.8	12.0		dB	
$\DeltaG_{p}$	Gain Flatness	± 0.3		± 0.6	dB	
NF	Noise Figure (100 MHz)	6.0		7.5	dB	
P <sub>1dB</sub>	Power Output at 1dB Compression	+28	+26		dBm	
VSWR	Input	1.6:1		2.0:1		
	Output	2.0:1		2.5:1		
REV. ISOL.	Reverse Isolation	20			dB	
I <sub>P2</sub>	Two Tone 2nd Order Intercept Point	+53			dBm	
I <sub>P3</sub>	Two Tone 3rd Order Intercept Point	+41			dBm	
H <sub>p2</sub>	Single Tone 2nd Harmonic Intercept Point	+59			dBm	
V <sub>D</sub>	Device Voltage	12.5	11.5	13.5	V	

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