

Diodes (continued)

Please reference artwork on previous page.

Surface Mount RF Schottky Barrier Diodes

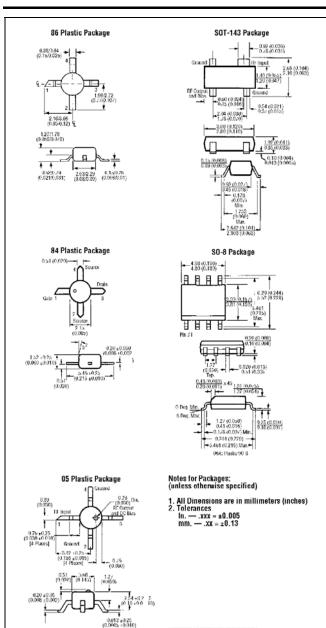
		F1-	Min. V _{BR} (V) @	Max. C _T (pF)	Max. V _F @ 1 mA (mV)
HSMS-2804-BLK HSMS-2805-BLK 5082-2810 HSMS-2812-BLK HSMS-2814-BLK HSMS-2815-BLK HSMS-2815-BLK HSMS-2815-TR:		Fig.	10 µÅ †lя = 100 µА	@ V R = Ö V ′	f = 100 MHz †Ir = 10 mA ‡Ir = 5 mA
HSMS-2800-BLK HSMS-2802-BLK HSMS-2804-BLK HSMS-2805-BLK 5082-2810 HSMS-2812-BLK HSMS-2814-BLK	HSMS-2802-TR1 HSMS-2812-TR1 HSMS-2815-TR1 HSMS-2821-TR1 HSMS-2822-TR1 HSMS-2825-TR1	1 2 4 3 5 1 4 3 5 1 2 4 6 3 5 5	70 70 70 70 70 20 20 20 20 15 15 15	2.0 2.0 2.0 2.0 2.0 1.2 1.2 1.2 1.2 1.0 1.0 1.0	410 410 400 400 400 400 400 400 400 480 340 340 340 340 340

Surface Mount RF Schottky Barrier Diodes (continued)

Mf Ty	Fi-	Min. V _{BR} (V) @	Max. Ct (pF)	Max. V _F @ 1 mA (mV) f = 100 MHz	
Bulk Tape and Reel		Fig.	10 μA †IR = 100 μA	@ V _R = Ö V ′	† = 100 MHZ † = 10 mA † = 5 mA
HSMS-2829-BLK	_	7	15	1.0	340

Surface Mount High Performance Schottky Diodes

-		r.'s pe	Fi-	Max. Forward Voltage	Min. Breakdown Voltage	Typ. C _T (pF) @ VR = -0.5 to -1.0 V	
	Bulk	Tape and Reel	Fig.	Voltage V _F (mV) IF = 1.0 mA	Voltage V _{BR} (V) IR = 10 μA	f = 1 MHz	
-	HSMS-2850-BLK — HSMS-2855-BLK HSMS-2863-BLK	2850-BLK — HSMS-2852-TR1 — 2855-BLK —		150 150 150 250	250 250 250 250 350	0.30 0.30 0.30 0.25	



Silicon Monolithic Integrated Circuits

Low Noise Amplifiers Typical specifications at +25 °C case temperature.

Mfr.'s Type	GP @ 0.1 GHz (dB)	GP @ 1 GHz (dB)	NF @ 1 GHz (dB)	P _{1dB} (dBm)	Min. Supply Voltage (V∞)*	Device Voltage (V _d)*	Device Current (mA)*	Package
INA-02186-BLK	31.5	28.5	2.0†	+11.0	5.5	5.5	35	86 Plastic
INA-10386-BLK	25.0	25.0	3.7†	+11.0	6.0	6.0	50	86 Plastic
MSA-0611-BLK	19.5	15.0	3.2	+2.0	5.0	3.3	16	SOT-143 SM Plastic

*Refer to schematic drawing. †Noise figure at 0.5 GHz.

General Purpose GaAs FETs

Mfr.'s Type	Gate Width (µm)	Optimum Freq. Range (GHz)	Test Freq. (GHz)	NFo (dB)	Ga (dB)	P _{1dB} (dBm)	Package
ATF-26884-STR	-26884-STR 250		12	2.2	9.0	+18	84 Plastic

High Speed Digital Communications

Variable Gain Control Amplifier
Typical specifications at +25 °C case temperatu

Mfr.'s Type	GP @ (dB)	Gain Control Range (dB)	3 db Bandwidth (GHz)	P _{1dB} @ 0.5 GHz	Supply Voltage (V)	Device Current (mA)	Package
IVA-14208-STR	24 @ 1.0 GHz	34 @ 1.0 GHz	2.5	_	6	3.8	SO-8 SM Plast
	Туре	Type (dB)	Type (dB) Control Range (dB)	Type (dB) Control Range (GHz)	Type (dB) Control Range (dB) Bandwidth (GHz) 0.5 GHz	Type (dB) Control Range (dB) Bandwidth (GHz) Voltage (V)	Type (dB) Control Range (dB) Bandwidth (GHz) 0.5 GHz (V) Coltage Current (mA)

Wide Dynamic Range Amplifier

Mfr.'s Type	GP @ 0.1 GHz (dB)	GP @ 1 GHz (dB)	NF (dB)	P _{1dB} (dBm)	Min. Supply Voltage (V∞)*	Device Voltage (V _d)*	Device Current (mA)*	Package
MSA-1105-STR	12.5	10.5	4.2	+17.5	8	5.5	60	05 Plastic

*Refer to schematic drawing.

Low Noise Amplifier Tvoical specifications at +25 °C case temperature.

Mfr.'s Type	GP @ 0.1 GHz (dB)	GP @ 1 GHz (dB)	NF @ 1 GHz (dB)	P _{1dB} (dBm)	Min. Supply Voltage (Vcc)*	Device Voltage (V _d)*	Device Current (mA)*	Package
INA-03184-BLK	25.5	25.0	2.6	-2.0	4	4.0	10	84 Plastic

*Refer to schematic drawing.

3-Port Double-Balanced Mixers Typical specifications at +25 °C case temperature

Mfr.'s Type	RF and LO Freq. (GHz)	Active Max. IF Freq. with Gain (GHz)	RF-IF Gain (dB)	IP₃ (dBm)	LO-RF Iso. (dB)	Supply Voltage (V)	Device Current (mA)	Package
IAM-82008-STR IAM-81008-STR	0.05-5.0 0.05-5.0	Up to 2.0 Up to 1.0	15.0* 8.5†	+18* +3†	22* 30†	10 5	55 13	S0-8 SM S0-8 SM

*Noise figure at 0.1 GHz. †Refer to schematic drawing.