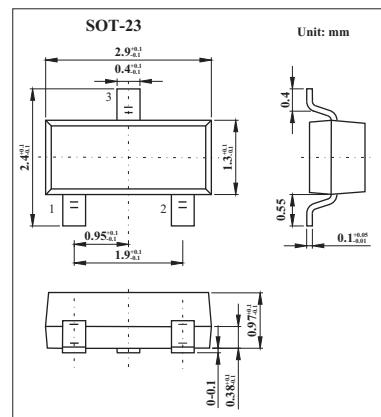
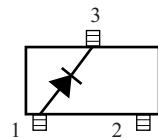


Surface Mount PIN Diodes

HSMP-3830

■ Features

- Low Current Switching
- Low Distortion Attenuating
- Ultra-Low Distortion Switching



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Continuous reverse voltage	V _R	200	V
Forward current (1 ms Pulse)	I _F	1	A
Power Dissipation @ TA = 25°C	P _{tot}	250	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Reverse voltage	V _R	I _R = 10 mA	200			V
Series Resistance	R _S	I _F = 100mA, f = 100MHz			1.5	Ω
Total Capacitance	C _T	V _R = 50V, f = 1MHz			0.3	pF

■ Marking

Marking	K0
---------	----

HSMP-3830

■ Typical Characteristics

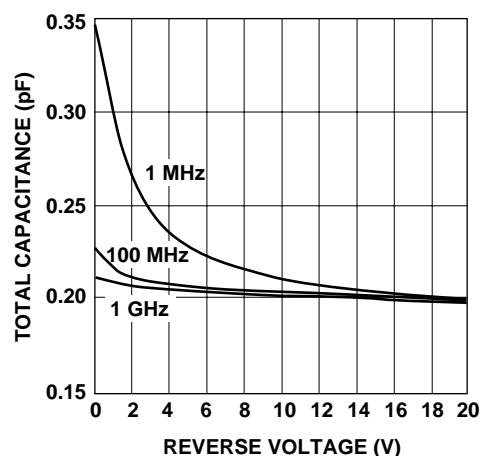


Figure 1. RF Capacitance vs. Reverse Bias

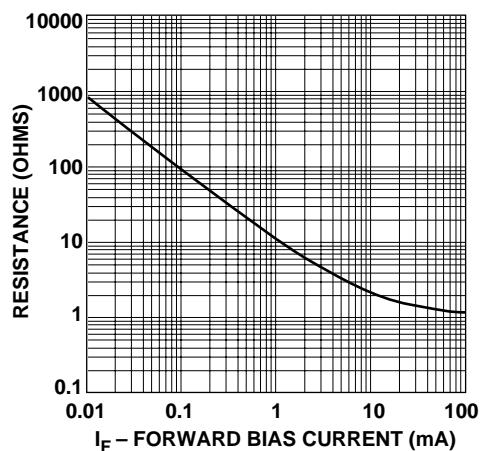


Figure 2. Resistance at 25°C vs. Forward Bias Current.

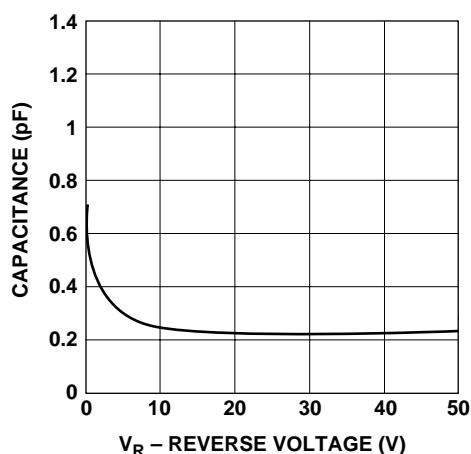


Figure 3. Capacitance vs. Reverse Voltage.

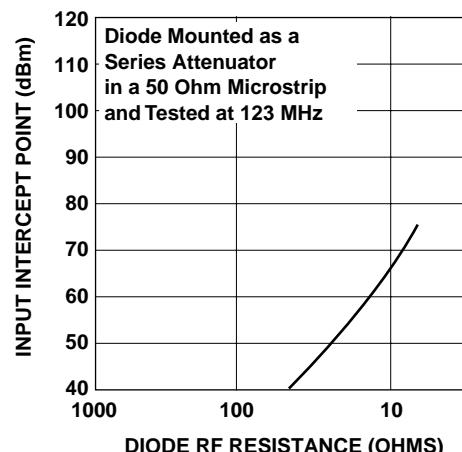


Figure 4. 2nd Harmonic Input Intercept Point vs. Diode RF Resistance for Attenuator Diodes.

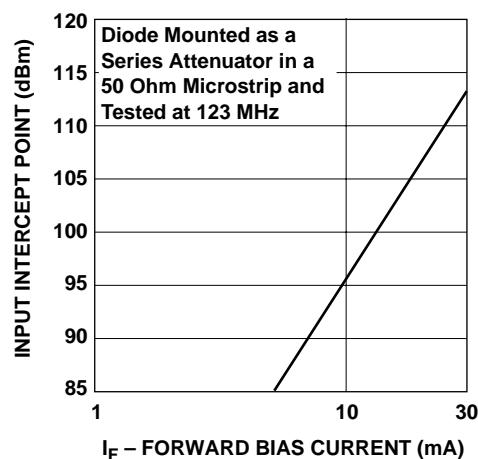
HSMP-3830

Figure 5. 2nd Harmonic Input Intercept Point vs. Forward Bias Current for Switch Diodes.

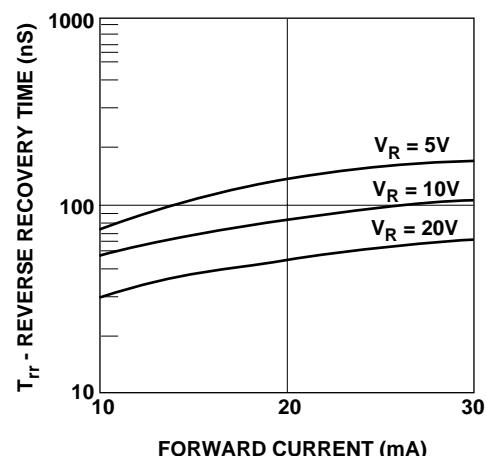


Figure 6. Reverse Recovery Time vs. Forward Current for Various Reverse Voltage.

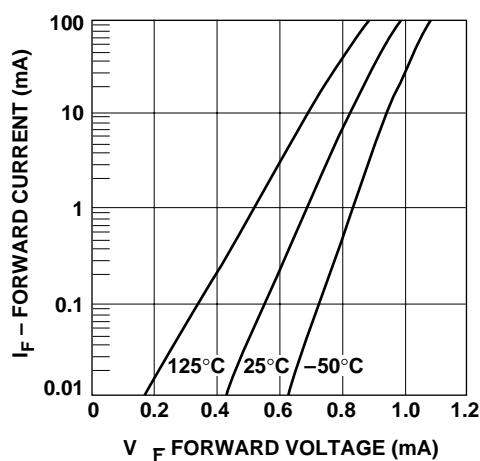


Figure 7. Forward Current vs. Forward Voltage.