

Low Power Schottky Diodes - continued

SOT-23, SOT-143, SOT-363 and SOT-323 - continued

Microwave Mixer - continued

| Min V _{BR} @ I _R 10µA V | Max V _F mv | Max Power @ 25°C mW | Max C _T @ 1 MHz pF | Device Marking | Package | Pin Config. | Mfrs. List No. |
|---|--------------------------|---------------------------|-------------------------------------|-------------------|---------|----------------|-------------------|
| 8♦ | 340 | 250 | 1 | C2 | SOT-23 | c | HSMS-2822 |
| 15 | 340 | — | 1 | C0 | SOT-23 | a | HSMS-2820 |
| 15 | 340 | — | 1 | CK | SOT-363 | - | HSMS-282K |
| 20 | 410 | 250 | 1.2 | B0 | SOT-23 | a | HSMS-2810 |
| 20 | 410 | 250 | 1.2 | B2 | SOT-23 | c | HSMS-2812 |
| 20 | 410 | 250 | 1.2 | B4 | SOT-23 | b | HSMS-2814 |
| 20 | 410 | 250 | 1.2 | B5 | SOT-143 | d | HSMS-2815 |
| 70 | 410 | 250 | 2 | A0 | SOT-23 | a | HSMS-2800 |
| 70 | 410 | 250 | 2 | A2 | SOT-23 | c | HSMS-2802 |

♦I_F=100µA

227432

| Mfrs. List No. | Order Code | 5+ | 10+ | 100+ | 500+ |
|----------------|-------------------|-------|-------|-------|-------|
| HSMS-2800 | 549-678 ▲ | 34.00 | 32.00 | 28.00 | 23.00 |
| HSMS-2802 | 549-708 ▲ | 49.00 | 47.00 | 40.00 | 33.00 |
| HSMS-2810 | 549-680 ▲ | 32.00 | 31.00 | 26.00 | 22.00 |
| HSMS-2812 | 549-710 ▲ | 58.00 | 55.00 | 46.00 | 38.00 |
| HSMS-2814 | 549-745 ▲ | 46.00 | 44.00 | 37.00 | 30.00 |
| HSMS-2815 | 549-770 ▲ | 55.00 | 53.00 | 45.00 | 37.00 |
| HSMS-2820 | 388-3073 ▲ | 30.00 | 28.00 | 24.00 | 20.00 |
| HSMS-2822 | 549-721 ▲ | 38.00 | 36.00 | 31.00 | 25.00 |
| HSMS-282K | 388-3085 ▲ | 75.00 | 71.00 | 60.00 | 50.00 |

Microwave Mixer

| Min V _{BR} @ I _R 10µA V | Max V _F mV | Max Power @ 25°C mW | Max C _T @ 1MHz pF | Device Marking | Package | Pin Config. | Mfrs. List No. |
|---|--------------------------|---------------------------|------------------------------------|-------------------|---------|----------------|-------------------|
| 4 | 350 | 75 | 0.26 | R1 | SOT-23 | e | HSMS-8101 |
| 4 | 350 | 75 | 0.26 | 2R | SOT-23 | f | HSMS-8202 |

| Mfrs. List No. | Order Code | 1+ | 10+ | 100+ | 500+ |
|----------------|------------------|--------|--------|--------|-------|
| HSMS-8101 | 994-649 ▲ | 127.00 | 100.00 | 85.00 | 71.00 |
| HSMS-8202 | 994-650 ▲ | 171.00 | 135.00 | 115.00 | 95.00 |

Transient Suppression

| Min V _{BR} @ I _R 10µA V | Max V _F mV | Max Power @ 25°C mW | Max C _T @ 1 MHz pF | Device Marking | Package | Pin Config. | Mfrs. List No. |
|---|--------------------------|---------------------------|-------------------------------------|-------------------|---------|----------------|-------------------|
| 15 | 550 | 250 | 6.7 | J2 | SOT-23 | a | HSMS-2700 |
| 15 | 550 | 250 | 6.7 | J0 | SOT-23 | c | HSMS-2702 |

| Mfrs. List No. | Order Code | 5+ | 10+ | 100+ | 500+ |
|----------------|-------------------|-------|-------|-------|-------|
| HSMS-2700 | 388-3115 ▲ | 20.00 | 19.00 | 16.00 | 13.00 |
| HSMS-2702 | 388-3127 ▲ | 26.00 | 25.00 | 22.00 | 18.00 |

Microwave Detector

| Max V _F mV @ 1 mA | Max Power @ 25°C mW | Typ C _T @ 1MHz pF | Typical Video Resistance RV (KΩ) | Device Marking | Package | Pin Config. | Mfrs. List No. |
|------------------------------------|---------------------------|------------------------------------|---|-------------------|---------|----------------|-------------------|
| 250 | 75 | 0.3 | 8.0 | P0 | SOT-23 | a | HSMS-2850 |
| 250 | 75 | 0.3 | 8.0 | P2 | SOT-23 | f | HSMS-2852 |
| 350 | - | 0.3 | 5.0 | T2 | SOT-323 | c | HSMS-286C |
| 350 | - | 0.3 | 5.0 | TK | SOT-363 | - | HSMS-286K |

| Mfrs. List No. | Order Code | 1+ | 10+ | 100+ | 500+ |
|----------------|-------------------|--------|--------|--------|-------|
| HSMS-2850 | 994-546 ▲ | 88.00 | 70.00 | 59.00 | 49.00 |
| HSMS-2852 | 994-560 ▲ | 154.00 | 121.00 | 103.00 | 86.00 |
| HSMS-286C | 388-3097 ▲ | 84.00 | 80.00 | 68.00 | 56.00 |
| HSMS-286K | 388-3103 ▲ | 92.00 | 88.00 | 74.00 | 62.00 |

Schottky Barrier



(a) L=4.32, D=1.93

(b) L=4.06, D=1.85

High performance devices for UHF/VHF applications, detecting, mixing, switching etc. Low turn-off voltage, as low as 0.34V @ 1mA. Pico-second switching speed. High breakdown voltage, up to 70V.

| Min V _{BR} @ I _R 10µA V | Max V _F mV | Max Power @ 25°C mW | Max C _T @ 1MHz pF | Mfrs. | Package | Mfrs. List No. |
|---|--------------------------|---------------------------|------------------------------------|-------|---------|-------------------|
| 8◇ | 340 | 150 | 1 | AV | (a) | 5082-2835.. |
| 15 | 410 | 250 | 1.2 | AV | (a) | 5082-2811.. |
| 20 | 410 | 250 | 1.2 | AV | (a) | 5082-2810.. |
| 20 | 550 | 250 | 1.2 | — | (a) | 1N5712. |
| 60 | 410 | 400 | 2.2 | ST | (b) | 1N6263. |
| 70 | 410 | 250 | 2 | AV | (a) | 5082-2800.. |
| 70 | 410 | 250 | 2 | ST | (a) | 1N5711 |

◇I_R=100 µA

211399

| Mfrs. List No. | Order Code | 5+ | 25+ | 100+ | 250+ | + |
|----------------|-------------------|--------|--------|--------|--------|----|
| 1N5711 | 980-1189 ● | 26.00 | 17.00 | 14.00 | 9.00 | -- |
| | | 1+ | 25+ | 100+ | 250+ | + |
| 1N5712. | 367-564 ▲ | 293.00 | 200.00 | 186.00 | 147.00 | -- |
| | | 5+ | 25+ | 100+ | 250+ | + |
| 1N6263. | 367-576 ▲‡ | 31.00 | 21.00 | 16.00 | 11.00 | -- |
| | | 1+ | 10+ | 100+ | 500+ | + |
| 5082-2800.. | 367-590 ▲ | 127.00 | 100.00 | 85.00 | 71.00 | -- |
| 5082-2810.. | 367-618 ▲ | 301.00 | 238.00 | 202.00 | 167.00 | -- |
| 5082-2811.. | 367-620 ▲ | 254.00 | 201.00 | 170.00 | 141.00 | -- |
| 5082-2835.. | 367-631 ▲ | 127.00 | 100.00 | 85.00 | 71.00 | -- |

RF Diodes

PIN Diodes



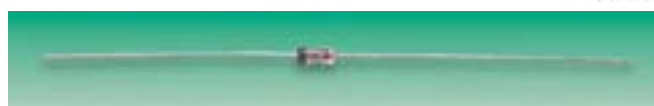
- Low capacitance
- High switching speed
- Single and Dual Diode Configurations

| Max C _T (typ) @ 1MHz pF | @ | V _{R(max)} V | I _{F(av)} mA | Min V _{BR} @ I _R ≤ 10µA V | Mfrs. List No. | |
|--|---|--------------------------|--------------------------|---|-------------------|-----------|
| 0.23 | | 50 | 50 | | SOT-23 | BA895 |
| 0.25 | | 100 | 140 | | SOT-23 | BAR14-1 |
| 0.25 | | 100 | 140 | | SOT-23 | BAR15-1 |
| 0.25 | | 100 | 140 | | SOT-23 | BAR16-1 |
| 0.9 | | 150 | 200 | | SOT-23 | BAR66 |
| 0.22 | | 50 | 50 | | SOD-323 | BA595 |
| 0.23 | | 150 | 100 | | SOT-323 | BAR64-04W |
| 0.23 | | 150 | 100 | | SOT-323 | BAR64-05W |
| 0.23 | | 150 | 100 | | SOT-323 | BAR64-06W |
| 0.6 | | 30 | 100 | | SOT-323 | BAR65-03W |
| 0.92 | | 35 | 100 | | SOD-323 | BA592 |
| 0.21 | | 50 | 100 | | SC-79 | BAR63-02V |
| 0.23 | | 150 | 100 | | SC-79 | BAR64-02V |
| 0.24 | | 50 | 100 | | SC-79 | BAR50-02V |
| 0.35 | | 150 | 100 | | SC-79 | BAR67-02V |
| 0.6 | | 30 | 100 | | SC-79 | BAR65-02V |
| 0.92 | | 35 | 100 | | SC-79 | BA892-02V |
| 0.25 | | 100 | 100 | | SOT-143 | BAR61 |
| 0.6 | | 30 | 100 | | SOT-343 | BAR81W |

419667

| Mfrs. List No. | Order Code | 5+ | 25+ | 100+ | 250+ | + |
|----------------|-------------------|-------|-------|-------|-------|----|
| BA592 | 109-5636 ● | 9.00 | 6.00 | 5.00 | 4.00 | -- |
| BA595 | 109-5637 ● | 29.00 | 18.00 | 12.00 | -- | -- |
| BA892-02V | 109-5639 ● | 10.00 | 6.00 | 5.00 | 5.00 | -- |
| BA895 | 109-5641 ● | 20.00 | 12.00 | 10.00 | 9.00 | -- |
| BAR14-1 | 109-5642 ● | 35.00 | 22.00 | 17.00 | 16.00 | -- |
| BAR15-1 | 109-5643 ● | 35.00 | 22.00 | 17.00 | 16.00 | -- |
| BAR16-1 | 109-5644 ● | 35.00 | 22.00 | 17.00 | 16.00 | -- |
| BAR50-02V | 109-5645 ● | 18.00 | 11.00 | 9.00 | 8.00 | -- |
| BAR61 | 109-5646 ● | 57.00 | 44.00 | 37.00 | -- | -- |
| BAR63-02V | 109-5647 ● | 18.00 | 11.00 | 9.00 | 8.00 | -- |
| BAR64-02V | 109-5648 ● | 16.00 | 10.00 | 8.00 | 7.00 | -- |
| BAR64-04W | 109-5649 ● | 27.00 | 17.00 | 14.00 | 12.00 | -- |
| BAR64-05W | 109-5652 ● | 27.00 | 17.00 | 14.00 | 12.00 | -- |
| BAR64-06W | 109-5653 ● | 27.00 | 17.00 | 14.00 | 12.00 | -- |
| BAR65-02V | 109-5654 ● | 16.00 | 10.00 | 8.00 | 7.00 | -- |
| BAR65-03W | 109-5655 ● | 16.00 | 10.00 | 8.00 | 7.00 | -- |
| BAR66 | 109-5656 ● | 58.00 | 37.00 | 29.00 | 26.00 | -- |
| BAR67-02V | 109-5657 ● | 22.00 | 13.00 | 11.00 | 10.00 | -- |
| BAR81W | 109-5658 ● | 52.00 | 33.00 | 26.00 | 23.00 | -- |

PIN



L=4.32
Dia=1.93

For low power RF switching and attenuating applications. Low distortion, large dynamic range, low series resistance, low capacitance. Max power dissipation 250mW @ 25 C.

| Min V _{BR} @ I _R ≤ 10µA V | Max C _T @ 1MHz pF | V _R @ V | Max R _S @ 100MHz Ω | t _{tr} typ. ns | Mfrs. List No. |
|---|------------------------------------|-----------------------|-------------------------------------|-------------------------------|-------------------|
| 200 | 0.3 | 50 | 1.5 | 100 | 5082-3077.. |