

Microwave, RF & Tuner Transistors

For complete package outlines, refer to pages PO-1 through PO-6

MOS Field Effect Transistors

| Type | Maximum Ratings | | | Characteristics ($T_A=25^\circ\text{C}$) | | | | | | Case | | |
|------------------|-----------------|----------------|-------------|--|------------|------------------|-------------|------------|----------------|--------|--------------|---------------|
| | V_{DS} V | I_{DS} mA | P_t mW | G_{ps} dB | NF dB | at V_{DS} V | I_D mA | f MHz | g_{fs} mS | Style | Lead Code | SOT Equiv. |
| (Tetrode) | | | | | | | | | | | | |
| BF961 | 20 | 30 | 200 | 23 | 1.1 | 15 | 10 | 200 | 17 | XPLAST | 45 | BF995 |
| BF963 | 20 | 50 | 200 | 25 | 1.5 | 15 | 10 | 200 | 25 | XPLAST | 45 | BF993 |
| BF964S | 20 | 30 | 200 | 25 | 1.0 | 15 | 10 | 200 | 18 | XPLAST | 45 | BF994S |
| BF965 | 20 | 30 | 200 | 25 | 1.0 | 15 | 10 | 200 | 18 | XPLAST | 45 | BF997 |
| BF966S | 20 | 30 | 200 | 18 | 1.8 | 15 | 10 | 800 | 18 | XPLAST | 45 | BF996S |
| BF988 | 12 | 30 | 200 | 20 | 1.0 | 8 | 10 | 800 | 28 | XPLAST | 45 | BF998 |
| (Triode) | | | | | | | | | | | | |
| BF544 (Triode) | 20 | 30 | 200 | 22 | 1.0 | 10 | 4 | 200 | 12 | TO92D | 46 | BF543 |
| BF987 (Triode) | 20 | 30 | 300 | 25 | 1.0 | 10 | 10 | 200 | 16 | TO-92b | 46 | BF999 |

GaAsFETs

| Type | Maximum Ratings | | | | Characteristics ($T_A=25^\circ\text{C}$) | | | | | | Case | | |
|----------|-----------------|---------------|----------------|-----------------|--|-----------|-------------|------------|-------------|-------------------|----------|--------------|---------------|
| | V_{DS} V | V_{GS} V | I_{DS} mA | P_{tot} mW | g_m mS | F dB | G_a dB | f GHz | MAG dB | P_{-1dB} dBm | Style | Lead Code | SOT Equiv. |
| CFY10 | 5 | -5...+0.5 | 100 | 500 | 45 | <1.8 | >9.5 | 6 | 12.5 | 14 | 100 mil | 47 | - |
| CFY19-18 | 6 | -5...+0.5 | 80 | 300 | 30 | <1.8 | >9.5 | 6 | 12.5 | 14 | Cerec-XF | 47 | - |
| CFY19-22 | 6 | -5...+0.5 | 80 | 300 | 25 | <2.2 | >9.0 | 6 | 12.0 | 14 | Cerec-XF | 47 | - |
| CFY25-17 | 5 | -5...+0.0 | 80 | 250 | 35 | 1.6 | 9.5 | 12 | - | - | Cerec-XF | 47 | - |
| CFY25-20 | 5 | -5...+0.0 | 80 | 250 | 35 | 1.9 | 9.0 | 12 | - | - | Micro-X | 47 | CFY35-20 |
| CFY25-23 | 5 | -5...+0.0 | 80 | 250 | 35 | 2.2 | 9.0 | 12 | - | - | Micro-X | 47 | CFY35-23 |

AlGaAs/GaAsHEMTs

| Type | Maximum Ratings | | | | Characteristics ($T_A=25^\circ\text{C}$) | | | | | Case | | |
|----------|-----------------|---------------|-------------|-----------------|--|-----------|-------------|------------|---------|--------------|---------------|--|
| | V_{DS} V | V_{GS} V | I_D mA | P_{tot} mW | g_m mS | F dB | G_a dB | f GHz | Style | Lead Code | SOT Equiv. | |
| CFY66-08 | 3.5 | -3.0...+0 | 60 | 200 | 50 | 0.8 | 11.0 | 12 | Micro-X | 47 | CFY76-08 | |
| CFY66-10 | 3.5 | -3.0...+0 | 60 | 200 | 50 | 1.0 | 10.5 | 12 | Micro-X | 47 | CFY76-10 | |
| CFY67-08 | 3.5 | 3.0...+0 | 60 | 200 | 65 | 0.8 | 11.5 | 12 | Micro-X | 47 | CFY77-08 | |
| CFY67-10 | 3.5 | -3.0...+0 | 60 | 200 | 65 | 1.0 | 11.0 | 12 | Micro-X | 47 | CFY77-10 | |

GaAsMMICs

Broadband Amplifiers

| Type | Characteristics ($T_A=25^\circ\text{C}$) | | | | | | | | | Case | | |
|-------|--|----------------|---------------------------------|---------------------|------------------|--------------------------|-----------------|------------------|-----------------------|---------|--------------|---------------|
| | V_S V | I_{op} mA | f MHz | G dB | ΔG dB | F dB | V_{out} mV | P_{1dB} dBm | V_{SWR} - | Style | Lead Code | SOT Equiv. |
| CGY21 | 3.0...6.0 | 160 | 100...900 | 21.0 | 1.5 | 3.9 (<5.5) | 350 | 19 | 1.25:1 | TO-12 | 48 | CGY52/62 |
| CGY31 | 3.0...6.0 | 160 | 800...1800 | 18.0 | 2.0 | 4.0 (<5.0) | 350 | 19 | 1.5:1 | TO-12 | 48 | |
| CGY40 | 3.0...5.5 | 60 | 100 200...1000 800...1800 | 10.8 10.5 9.0 | - 0.4 1.1 | 3.0 2.5 2.8 (<4.0) | - 400 400 | - 18 18 | 2:1 1.7:1 1.7:1 | Cerec-X | 49 | CGY50 |