

Field Effect Transistors

JFETs operate in the depletion mode. They are available in both P- and N-channel and are offered in both Through-hole and Surface Mount Packages. Applications include general-purpose amplifiers, switches and choppers, and RF amplifiers and mixers.



Table of JFET Low-Frequency/Low-Noise (Case 29-04 — TO-226AA (TO-92) — N-Channel) characteristics including Re Ys @ f, Ciss, Coss, Vds(on), and Ioss.

Table of JFET High-Frequency Amplifiers (Case 29-04 — TO-226AA (TO-92) — N-Channel) characteristics including Re Ys @ f, Ciss, Coss, Vds(on), and Ioss.

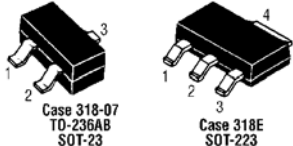
Table of JFET Low-Frequency/Low-Noise (Case 29-04 — TO-226AA (TO-92) — P-Channel) characteristics including Re Ys @ f, Ciss, Coss, Vds(on), and Ioss.

Typical.

Field Effect Transistors

Surface Mount FETs

This section contains the FET plastic packages available for surface mount applications. Most of these devices are the most popular metal-can and insertion type parts carried over to the new surface mount packages.



Surface Mount RF JFETs Pinout: 1 — Drain, 2 — Source, 3 — Gate (Case 318-07 — TO-236AB (SOT-23) — N-Channel) The following is a list of surface mount FETs which are intended for VHF/UHF RF amplifier applications.

Table of Surface Mount RF JFETs characteristics including Marking, NF, Ys @ Vds, and Ioss.

Max.

Surface Mount General-Purpose JFETs

Pinout: 1 — Drain, 2 — Source, 3 — Gate (Case 318-07 — TO-236AB (SOT-23) — P-Channel) The following table is a listing of surface mount small-signal general purpose FETs. These devices are intended for small-signal amplification for DC, audio, and lower RF frequencies.

Table of Surface Mount General-Purpose JFETs characteristics including Marking, Vds(on), Ys @ Vds, and Ioss.

Surface Mount Choppers/Switches JFETs

Pinout: 1 — Drain, 2 — Source, 3 — Gate (Case 318-07 — TO-236AB (SOT-23) — N-Channel) The following is a listing of small-signal surface mount JFET devices intended for switching and chopper applications.

Table of Surface Mount Choppers/Switches JFETs characteristics including Marking, Ros(on), trr, Vds(on), and Ioss.

Surface Mount Choppers/Switches JFETs

Pinout: 1 — Drain, 2 — Source, 3 — Gate (Case 318-07 — TO-236AB (SOT-23) — P-Channel) The following is a listing of small-signal surface mount JFET devices intended for switching and chopper applications.

Table of Surface Mount Choppers/Switches JFETs characteristics including Marking, Ros(on), trr, Vds(on), and Ioss.

TMOS FETs

Pinout: 1 — Gate, 2 — Source, 3 — Drain (Case 318-07 — TO-236AB (SOT-23) — N-Channel) The following is a listing of small-signal surface mount TMOS FETs which exhibit low Rds(on) characteristics.

Table of TMOS FETs characteristics including Marking, Ros(on) @ Io, Vds(on), and Switching Time.

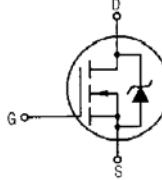
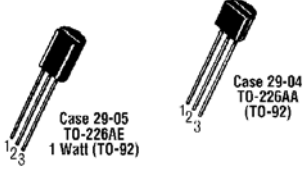
TMOS FETs

Pinout: 1 — Gate, 2 — Drain, 3 — Source, 4 — Drain (Case 318E (SOT-223) — N-Channel) The following is a listing of small-signal surface mount TMOS FETs which exhibit low Rds(on) characteristics.

Table of TMOS FETs characteristics including Marking, Ros(on) @ Io, Vds(on), and Switching Time.

Field Effect Transistors

TMOS MOSFETs



TMOS Switches and Choppers (Case 29-05 — TO-226AE (1-WATT TO-92) — N-Channel) The following is a listing of small-signal TMOS devices that are intended for switching and chopper applications. These devices offer low Rds(on) characteristics.

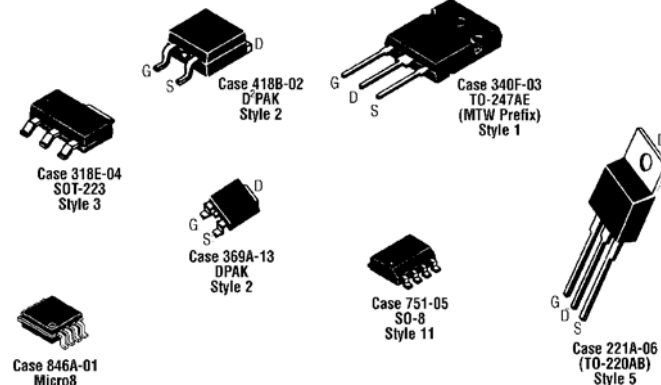
Table of TMOS Switches and Choppers (Case 29-05 — TO-226AE (1-WATT TO-92) — N-Channel) characteristics including Ros(on) @ ID, Vds(on), Vds(ress), Ciss, Coss, trs, and trf.

TMOS Switches and Choppers (Case 29-04 — TO-226AA (TO-92) — N-Channel) The following is a listing of small-signal TMOS devices that are intended for switching and chopper applications. These devices offer low Rds(on) characteristics.

Table of TMOS Switches and Choppers (Case 29-04 — TO-226AA (TO-92) — N-Channel) characteristics including Ros(on) @ ID, Vds(on), Vds(ress), Ciss, Coss, trs, and trf.

Typical.

Power TMOS<sup>®</sup> MOSFETs



DPAK DPAK — N-Channel

Table of DPAK MOSFETs characteristics including Mfr.'s Type, Vds(ress), Ros(on), Id, Id(cont.), and Pd.

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TO-220AB

Table of TO-220AB MOSFETs characteristics including Mfr.'s Type, Vds(ress), Ros(on), Id, Id(cont.), and Pd.

TO-220AB — P-Channel

Table of TO-220AB MOSFETs characteristics including Mfr.'s Type, Vds(ress), Ros(on), Id, Id(cont.), and Pd.

<sup>1</sup>TC=25°C. <sup>2</sup>Indicates Logic Level. <sup>3</sup>Power rating when mounted on an FR-4 glass epoxy printed circuit board with the minimum recommended footprint. <sup>4</sup>Available in tape and reel — add T4 suffix to Part Number. <sup>5</sup>ESD protected to 4 kV.