

## Japanese Equivalent JFET Types

### Silicon Junction Field-Effect Transistors

|                       |                                      | Japanese      | 2SK17                                  | 2SK40                         | 2SK59               | 2SK105                        |
|-----------------------|--------------------------------------|---------------|--|-------------------------------|---------------------|-------------------------------|
|                       |                                      | InterFET      | IFN17                                  | IFN40                         | IFN59               | IFN105                        |
|                       |                                      | Process       | NJ16                                   | NJ16                          | NJ16                | NJ16                          |
| Parameters            | Conditions                           | Unit Limit    | N Channel                              | N Channel                     | N Channel           | N Channel                     |
| $BV_{GSS}$            | $I_G = -1.0 \mu A$                   | V<br>Min      | -20                                    | -50                           | -30                 | -50                           |
| $I_{GSS}$             | $V_{GS} = ()$ , $V_{DS} = \emptyset$ | nA<br>Max     | 0.10<br>(-10 V)                        | 1.0<br>(-30 V)                | 1.0<br>(-10 V)      | 1.0<br>(-30 V)                |
| $V_{GS(off)}$         | $V_{DS} = ()$ , $I_D = 1.0 nA$       | V<br>Min/Max  | -0.5/-6.0<br>(10 V)                    | -0.4/-5.0<br>(15 V)           | -0.4/-5.0<br>(10 V) | -0.25/-4.5<br>(5.0 V)         |
| $I_{DSS}$             | $V_{DS} = ()$ , $V_{GS} = \emptyset$ | mA<br>Min/Max | 0.3/6.5<br>(10 V)                      | 0.6/6.5<br>(15 V)             | 0.3/1.4<br>(10 V)   | 0.5/12<br>(5.0 V)             |
| $g_{fs}$              | $V_{DS} = ()$ , $V_{GS} = \emptyset$ | mS<br>Typ     | 2.0<br>(10 V)                          | 2.0<br>(15 V)                 | 1.5<br>(10 V)       | 2.1<br>(5.0 V)                |
| $C_{iss}$             | $V_{GS} = ()$ , $V_{DS} = ()$        | pF<br>Typ     | 4.0<br>( $\emptyset$ ) ( $\emptyset$ ) | 4.0<br>( $\emptyset$ ) (15 V) |                     | 4.0<br>( $\emptyset$ ) (10 V) |
| $C_{rss}$             | $V_{GS} = ()$ , $V_{DS} = ()$        | pF<br>Typ     | 1.2<br>(-10 V) ( $\emptyset$ )         | 1.2<br>( $\emptyset$ ) (15 V) |                     | 1.0<br>( $\emptyset$ ) (10 V) |
| Package Configuration |                                      |               | TO-226AA                               | TO-226AA                      | TO-226AA            | TO-226AA                      |
| Pin Configuration     |                                      |               | SGD                                    | SGD                           | SGD                 | DGS                           |