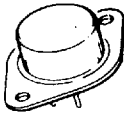
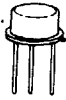
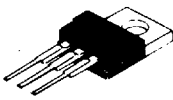
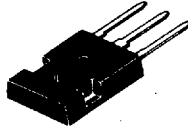


**Power MOSFETs****Rugged-Series Power MOSFETs — N-Channel (Continued)**

| <div>Package</div> <div>Maximum Ratings</div> |                                                                                                                                 |                                                                                                                                                               |                                                                                                                              |  |  |    |  |  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                               |                                                                                                                                 |                                                                                                                                                               |                                                                                                                              | TO-204                                                                            | TO-205                                                                            | TO-220                                                                               | TO-247                                                                              | 4-Pin DIP                                                                           |
| B <sub>V</sub> DSS<br>(V)                     | I <sub>DS</sub><br>(A)                                                                                                          | r <sub>DS(ON)</sub><br>OHMS                                                                                                                                   | E <sub>AS</sub><br>(mJ)                                                                                                      |                                                                                   |                                                                                   |                                                                                      |                                                                                     |                                                                                     |
| 150                                           | 18<br>25<br>30                                                                                                                  | 0.18<br>0.12<br>0.085                                                                                                                                         | 300<br>500<br>500                                                                                                            | IRF241R<br>IRF253R<br>IRF251R                                                     |                                                                                   | IRF641R                                                                              | IRFP241R<br>IRFP253R<br>IRFP251R                                                    |                                                                                     |
| 200                                           | 0.45<br>0.60<br>0.70<br>0.80<br>1.80<br>2<br>2.20<br>2.50<br>3<br>3.5<br>4<br>4.5<br>5<br>5.5<br>8<br>9<br>16<br>18<br>25<br>30 | 2.40<br>1.50<br>1.20<br>0.80<br>2.40<br>2.40<br>1.50<br>1.50<br>1.20<br>0.80<br>1.20<br>0.60<br>0.80<br>0.40<br>0.60<br>0.40<br>0.22<br>0.18<br>0.12<br>0.085 | 30<br>30<br>85<br>85<br>30<br>30<br>30<br>30<br>85<br>85<br>85<br>150<br>85<br>150<br>150<br>150<br>300<br>300<br>500<br>500 | IRF232R<br>IRF230R<br>IRF242R<br>IRF240R<br>IRF252R<br>IRF250R                    | IRFF212R<br>IRFF210R<br>IRFF222R<br>IRFF220R<br>IRFF232R<br>IRFF230R              | IRF612R<br>IRF610R<br>IRF622R<br>IRF620R<br>IRF632R<br>IRF630R<br>IRF642R<br>IRF640R | IRFP242R<br>IRFP240R<br>IRFP252R<br>IRFP250R                                        | IRFD212R<br>IRFD210R<br>IRFD222R<br>IRFD220R                                        |
| 250                                           | 3.30<br>3.80<br>6.50<br>8.10<br>13<br>14<br>21<br>23                                                                            | 1.50<br>1.10<br>0.68<br>0.45<br>0.34<br>0.28<br>0.17<br>0.14                                                                                                  | 120<br>120<br>180<br>180<br>550<br>550<br>1000<br>1000                                                                       | IRF235<br>IRF230R<br>IRF234<br>IRF245<br>IRF244<br>IRF255<br>IRF254               |                                                                                   | IRF625<br>IRF624<br>IRF635<br>IRF634<br>IRF645<br>IRF644                             | IRFP235<br>IRFP234<br>IRFP245<br>IRFP244<br>IRFP255<br>IRFP254                      |                                                                                     |
| 275                                           | 3.30<br>3.80<br>6.50<br>8.10<br>13<br>14<br>21<br>23                                                                            | 1.50<br>1.10<br>0.68<br>0.45<br>0.34<br>0.28<br>0.17<br>0.14                                                                                                  | 120<br>120<br>180<br>180<br>550<br>550<br>1000<br>1000                                                                       | IRF237<br>IRF236<br>IRF247<br>IRF246<br>IRF257<br>IRF256                          |                                                                                   | IRF627<br>IRF626<br>IRF637<br>IRF636<br>IRF647<br>IRF646                             | IRFP237<br>IRFP236<br>IRFP247<br>IRFP246<br>IRFP257<br>IRFP256                      |                                                                                     |
| 350                                           | 0.30<br>0.40<br>0.40<br>0.50<br>1.15<br>1.30<br>1.35<br>1.50<br>2<br>2.50<br>2.50<br>3<br>3<br>3.50<br>4.50                     | 5.00<br>3.60<br>2.50<br>1.80<br>5.00<br>5.00<br>3.60<br>3.60<br>2.50<br>1.80<br>2.50<br>1.80<br>1.80<br>1.00<br>1.50                                          | 45<br>45<br>100<br>100<br>45<br>45<br>45<br>45<br>100<br>100<br>100<br>100<br>300<br>300<br>300                              | IRF333R                                                                           | IRFF313R<br>IRFF311R<br>IRFF323R<br>IRFF321R<br>IRFF333R<br>IRFF331R              | IRF713R<br>IRF711R<br>IRF723R<br>IRF721R<br>IRF733R                                  |                                                                                     | IRFD313R<br>IRFD311R<br>IRFD323R<br>IRFD321R                                        |