

|                                        | <b>RU6070L-A</b> | <b>BSZ042N06NS</b> | <b>BSC028N06NS</b> |
|----------------------------------------|------------------|--------------------|--------------------|
| On-state Resistance, RDS(ON)           | 6.8 mΩ           | 3.4 mΩ             | 2.5 mΩ             |
| Total Gate Charge, Qg                  | 45 nC            | 27 nC              | 37 nC              |
| Gate-Drain Charge, Qgd                 | 16 nC            | 5 nC               | 7 nC               |
| Gate-Source Charge, Qgs                | 12 nC            | 9 nF               | 12 nC              |
| Gate Resistance, RG                    | 1.4 Ω            | 1.6 Ω              | 1.3 Ω              |
| Transconductance, Gfs                  | <b>n/a</b>       | 54 S               | 100 S              |
| Gate-Source Threshold Voltage, VGS(th) | 3V               | 2.8V               | 2.8V               |
| Diode Forward Voltage, Vsd             | 1V               | 0.9V               | 0.9V               |
| Reverse Recovery Charge, Qrr           | 91 nC            | 33 nC              | 29 nC              |
| Thermal resistance, RthJC              | 100 C/W          | 60 K/W             | 50 K/W             |