









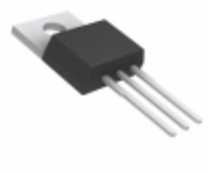


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| <br>life.augmented | <h2>SCT20N120</h2>  |
|   | <p><b>Manufacturer Part Number:</b> SCT20N120</p> <p><b>Manufacturer/Brand:</b> STMicroelectronics</p> <p><b>Part of Description:</b> MOSFET N-CH 1200V 20A HIP247</p> <p><b>Datasheets:</b> <a href="#">1.SCT20N120.pdf</a><br/><a href="#">2.SCT20N120.pdf</a></p> <p><b>RoHs Status:</b>  Lead free / RoHS</p> <p><b>Stock Condition:</b>  Compliant<br/>New original, Stock Available.</p> <p><b>Ship From:</b> Hong Kong</p> <p><b>Shipment Way:</b> DHL/Fedex/TNT/UPS/EMS</p> |
| <p>Image may be representation.<br/>See specs for product details.</p>                              |   |

### Specifications

|  |   |
|--|---|
| Part Number                            | SCT20N120   |
| Manufacturer                           | STMicroelectronics                                    |
| Description                            | MOSFET N-CH 1200V 20A HIP247                          |
| Category                               | Discrete Semiconductor Products > Transistors - FETs, |
| Part Status                            | Require For Quote & Check Stock                       |
| Vgs(th) (Max) @ Id                     | 3.5V @ 1mA  |
| Vgs (Max)                              | +25V, -10V  |
| Technology                             | SiCFET (Silicon Carbide)                              |
| Supplier Device Package                | HiP247™   |
| Series                                 | -   |
| Rds On (Max) @ Id, Vgs                 | 290 mOhm @ 10A, 20V                                   |
| Power Dissipation (Max)                | 175W (Tc)   |
| Packaging                              | Tube  |
| Package / Case                         | TO-247-3  |
| Operating Temperature                  | -55°C ~ 200°C (TJ)                                    |
| Mounting Type                          | Through Hole  |
| Input Capacitance (Ciss) (Max) @ Vds   | 650pF @ 400V  |
| Gate Charge (Qg) (Max) @ Vgs           | 45nC @ 20V  |
| FET Type                               | N-Channel   |
| FET Feature                            | -   |
| Drive Voltage (Max Rds On, Min Rds On) | 20V   |
| Drain to Source Voltage (Vdss)         | 1200V (1.2kV)   |
| Current - Continuous Drain (Id) @ 25°C | 20A (Tc)  |

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