

New 60V Automotive Power MOSFET OptiMOS™5 in SSO8 and S3O8

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www.infineon.com/automotivemosfet



60V MOSFET portfolio in production

Leadless packages

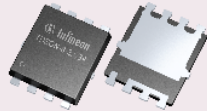
Newly developed

SS08 Single
(PG-TDSON-8)

S3O8™
(PG-TSDSON-8)

SS08 Dual
(PG-TDSON-8)

DirectFET2™
(PG-WDSO)



Foot print

5x6mm²

3x3mm²

5x6mm²

Small: 5x4mm²
Medium: 6x5mm²
Large: 7x9mm²

Technology

OptiMOS™-5

OptiMOS™ -5

OptiMOS™,
OptiMOS™-T2

Gen 10.7

R_{DSon} range

1,7mΩ - 10,4mΩ

5 mΩ - 14mΩ

11mΩ - 65mΩ

1.5mΩ - 36mΩ

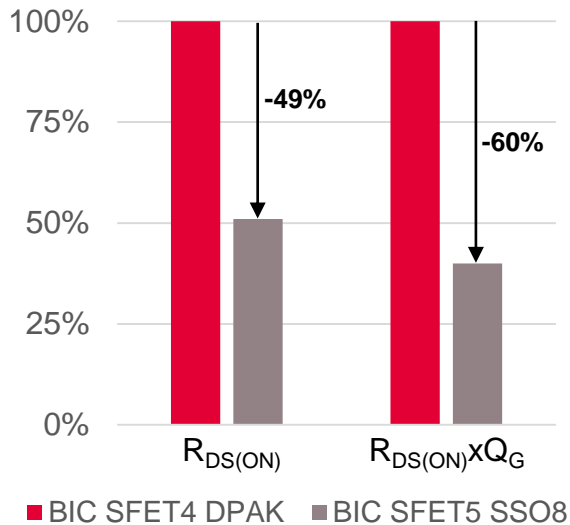
OptiMOS™ 5 – The next best thing in 60 V



One big leap in performance

Delivers more power and a world-leading performance.

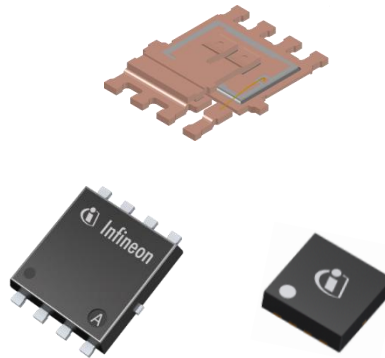
- Reduced conduction losses
- Optimized for drives & power conversion apps



Tiny leadless packages

Enhanced in every way from the inside out.

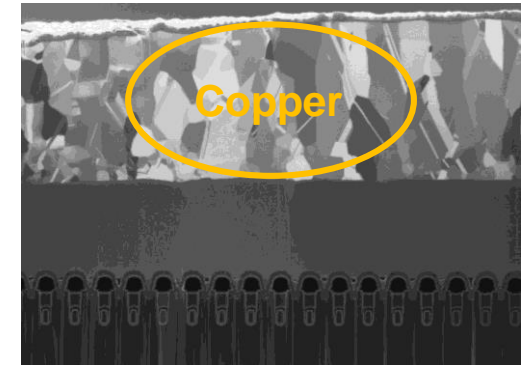
- SSO8 & S3O8: less than 50% the size of a DPAK
- Copper clips for higher current loading – up to 120 A



Powerful chips

Specifically designed for fast-switching applications.

- C_{iss} & C_{oss} reduced by 70% compared to previous tech.
- Improved EMC behavior



New 60V OptiMOS™5 family in SSO8 and S3O8

Single SSO8



L x W x H

6.5 x 5.1 x 1.0 mm³

BiC 60V: **1.7 mΩ**

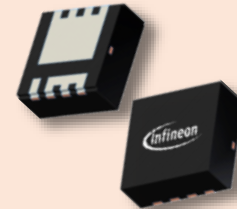
I_{DC} = 120A

Cu-Clip soldered

| Product | max R _{DS(on)} [mΩ] | ID [A] | LL/NL |
|------------------|------------------------------|--------|-------|
| IAUC120N06S5N017 | 1.7 | 120 | NL |
| IAUC120N06S5L032 | 3.2 | 120 | LL |
| IAUC41N06S5L100 | 10.0 | 41 | LL |

| Product | max R _{DS(on)} [mΩ] | ID [A] | LL/NL |
|-----------------|------------------------------|--------|-------|
| IAUZ40N06S5N050 | 5.0 | 40 | NL |
| IAUZ30N06S5L140 | 14.0 | 30 | LL |

S3O8



L x W x H

3.3 x 3.3 x 1.0 mm³

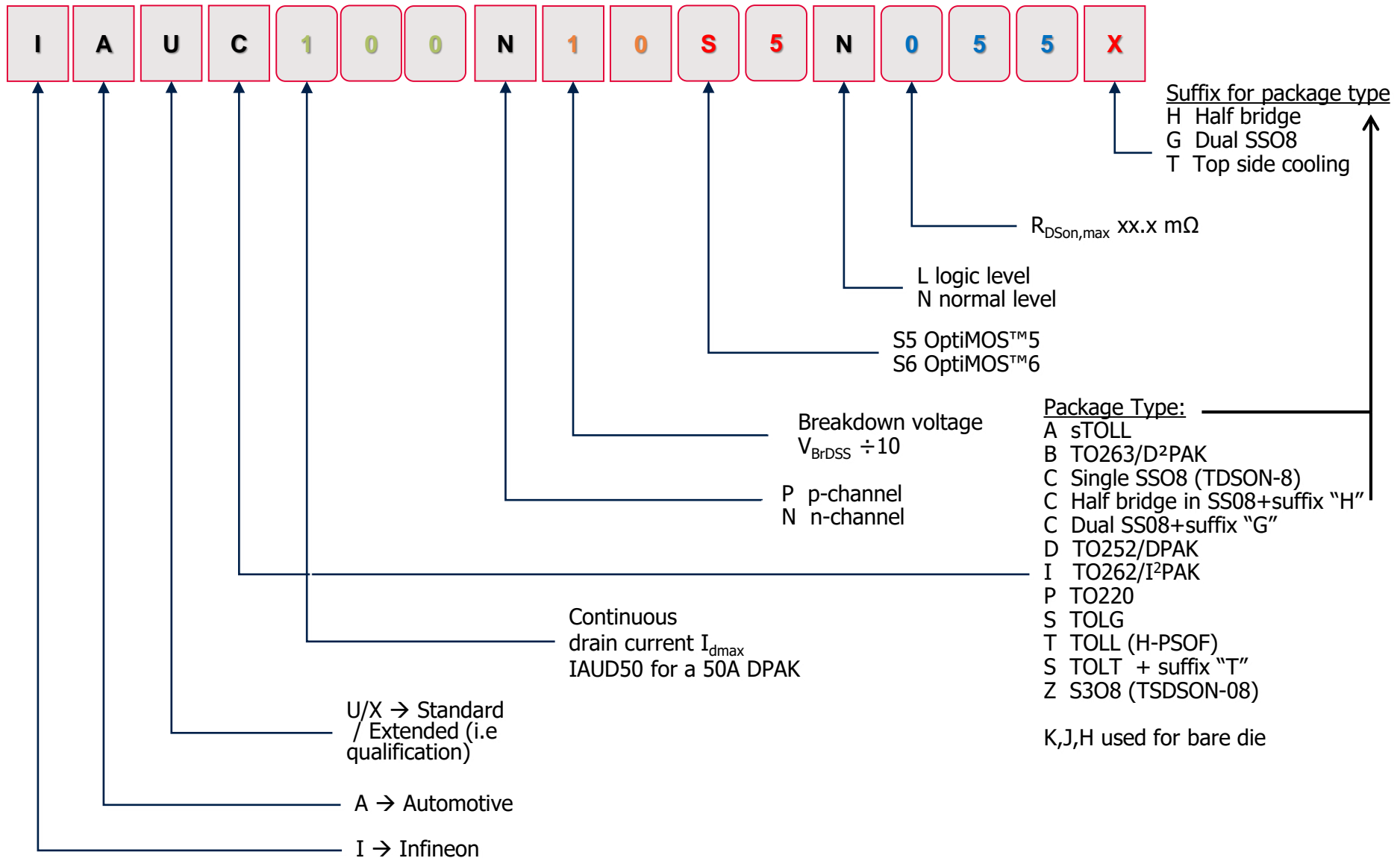
BiC 60V: **5.0 mΩ**

I_{DC} = 40A

Cu-Clip soldered

New Automotive MOSFET naming system

- PACKAGE





Part of your life. Part of tomorrow.

