Discrete IGBTs and Diodes
Nomenclature “old”
Nomenclature IGBT/Diodes
Devices launched before 03/2013

Sales name

Grp 1:
S : Siemens
I : Infineon

Grp 2:
Device type
D : Diode
G : single IGBT
H : soft-switching IGBT with integrated free wheeling diode
K : hard-switching IGBT with external free wheeling diode

Grp 3: Package
A : TO-220 FullPAK
B : TO-263 (D²PAK)
D : TO-252 (DPAK)
P : TO-220
U : TO-251 (IPAK)
W : TO-247

Grp 4: Nominal current
[A] @ 100°C

Grp 5: Tech class
N : n-channel
T : TRENCHSTOP™
(1200 V only)

Grp 6: Nominal voltage
[V] /10

Grp 7: Specification
Nothing stated: Fast IGBT (< 20 kHz/IGBT2)

HS : HighSpeed 600 V (> 20 kHz/IGBT2)
H2 : HighSpeed2 1200 V (> 20 kHz/IGBT2)
H3 : HighSpeed3 1200 V (> 20 kHz/IGBT4)
T : TRENCHSTOP™
T2 : TRENCHSTOP™ 2nd Gen
(> 20 kHz/IGBT4)

R/RF: Reverse Conducting
R2 : Reverse Conducting 2nd Gen
R3 : Reverse Conducting 3rd Gen
(< 30 kHz/IGBT3)
(< 60 kHz/IGBT3)
(< 60 kHz/IGBT3)

Grp 8: Automotive indicator

Marking pattern
(see technical data sheet)

Device Type
(see Grp 2)
Nominal Current
(see Grp 4)
Product Family
(see Grp 7)
Generation
(see Grp 7)
Nominal Voltage
(see Grp 6)
Discrete IGBTs and Diodes

Nomenclature “new”
Nomenclature IGBT „new“
Devices launched after 03/2013

Sales name

Grp 2: Device type
G: Single IGBT
H: Reverse Conducting
K: DuoPack

Grp 3: Package
A: TO-220 FullPAK 3pin
B: TO-263 3pin (D²Pack)
D: TO-252 3pin (DPack)
P: TO-220 3pin
U: TO-251 3pin (I-Pack)
W: TO-247 3pin
Z: TO-247 4pin
Q: TO-247PLUS 3pin
Y: TO-247PLUS 4pin
FW: TO-247 3 pin Advanced Isolation

Grp 4: Current
[A] Nominal current @ 100°C
[B] Equivalent collector current for Advanced Isolation

Grp 5: Tech class
N: n-channel
P: p-channel

Grp 6: Nominal voltage [V] /10

Grp 7: Diode (for DuoPack only)
C: Emitter Controlled full rated
D: Rapid 1 diode
E: Rapid 1 full rated
N: Rapid 2 full rated
W: Full rated hard switching turn off diode

Grp 8: Optimization
F5: Fast 5
H5: HighSpeed 5
L5: Low V_{CE(sat)} 5th Gen
R5: RC IH-series 5th Gen
WR5: RC TRENCHSTOP™ 5
S5: soft TRENCHSTOP™ 5
T: TRENCHSTOP™
TP: TRENCHSTOP™ Performance
T2: TRENCHSTOP™ 2
H3: HighSpeed3
T6: TRENCHSTOP™ IGBT6
H6: 1200V TRENCHSTOP™ IGBT6
S6: 1200V TRENCHSTOP™ IGBT6

Grp 9: E: replacement for TO-247 with medium performance insulator or FullPAK
Blank: best in class, replacement for TO-247 with high performance insulator or FullPAK

* only for Advanced Isolation

Device type (see Grp 2)
Nominal current (see Grp 4)
Nominal voltage (see below table)
Diode (see Grp 7)
Optimization (see Grp 8)

Marking pattern
(see technical data sheet)

| Device type (see Grp 2) | Nominal current (see Grp 4) | Nominal voltage (see below table) | Diode (see Grp 7) | Optimization (see Grp 8) |

Voltage table

| Coding | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| Voltage| 600 V | 650 V | 900 V | 1000 V | 1100 V | 1200 V | 1250 V | 1300 V | 1350 V | 1600 V | 1700 V | 1800 V | 1900 V | 2000 V | 2100 V | 2200 V | 2300 V | 2400 V | 2500 V | 2600 V | 2700 V | 2800 V | 2900 V | 3000 V |

2018-06-05
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Nomenclature Diode „new“
Devices launched after 03/2013

**Sales name**

<table>
<thead>
<tr>
<th>I</th>
<th>D</th>
<th>W</th>
<th>75</th>
<th>E</th>
<th>65</th>
<th>D1</th>
<th>E</th>
</tr>
</thead>
</table>

**Grp 3: Package**
- P: TO-220 2pin/3pin
- V: TO-220 FullPAK 2pin
- D: TO-252 3pin
- B: TO-263 3pin
- W: TO-247 3pin
- FW: TO-247 3pin Advanced Isolation

**Grp 5: Tech class**
- E: Std. configuration
- C: Common Cathode
- D: Dual Anode

**Grp 7: Optimization**
- Blank: Emitter Controlled
- D1: Rapid 1
- D2: Rapid 2

* only for Advanced Isolation

**Grp 9:**
- E: replacement for TO-247 with medium performance insulator or FullPAK

**Grp 2: Device type**
- D: Diode

**Grp 4: Current**
- [A] Nominal current @ 100°C
- [A] Equivalent collector current for Advanced Isolation

**Marking pattern**
(see technical data sheet)

**Tech class** (see Grp 5)

**Nominal current** (see Grp 4)

**Nominal voltage** (see below table)

**Optimization** (see Grp 7)

**Voltage table**

| Coding | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| Voltage|    | 600 V | 650 V | 900 V | 1000 V | 1100 V | 1200 V | 1250 V | 1300 V | 1350 V | 1400 V | 1500 V | 1600 V | 1700 V |

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Discrete IGBTs and Diodes

Traceability and date code
Traceability and production date code
IGBT/Diode

Grp 1: Green product
G: RoHS Compliancy (non HF)
H: RoHS + Halogen Free

Grp 2: Lot identification
AA: Lot #1
AB: Lot #2
AC: Lot #3
...

Grp 3: Year code
0: 2010
1: 2011
2: 2012
3: 2013
4: 2014
...

Grp 4: Calendar week code
01: CW 01
02: CW 02
03: CW 03
...

Based on the above example - HAU324
> Halogen Free Product
> Lot identification: 21\textsuperscript{st} production lot from CW24/2013
> Date code: CW 24/2013
Part of your life. Part of tomorrow.