CMOS028FDSOI Technology

PN Junction Diode models

DK1.2_RF_mmW

Comparison with DK1.1_RF_mmW model(s)

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General information on models

- Maximum supply voltage is - V.
- Validity domain is defined as follows:
  - ✔ Device temperature varies from -40 C °C to 150 C °C.

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Output parameters definitions

- Model(s): diodenwx, diodenx, diodepnw, diodepwtw, diodetwx, egdiodenx, egdiodepnw
  - ✔ Cj : Junction capacitance at Vj = 1.0V, f = 100KHz.
  - ✔ Ij : Junction leakage current at Vj = 1.0V.

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diodenwx
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Cj and Ij scaling versus Vj for Area diode, Temp=25C & Temp=125C

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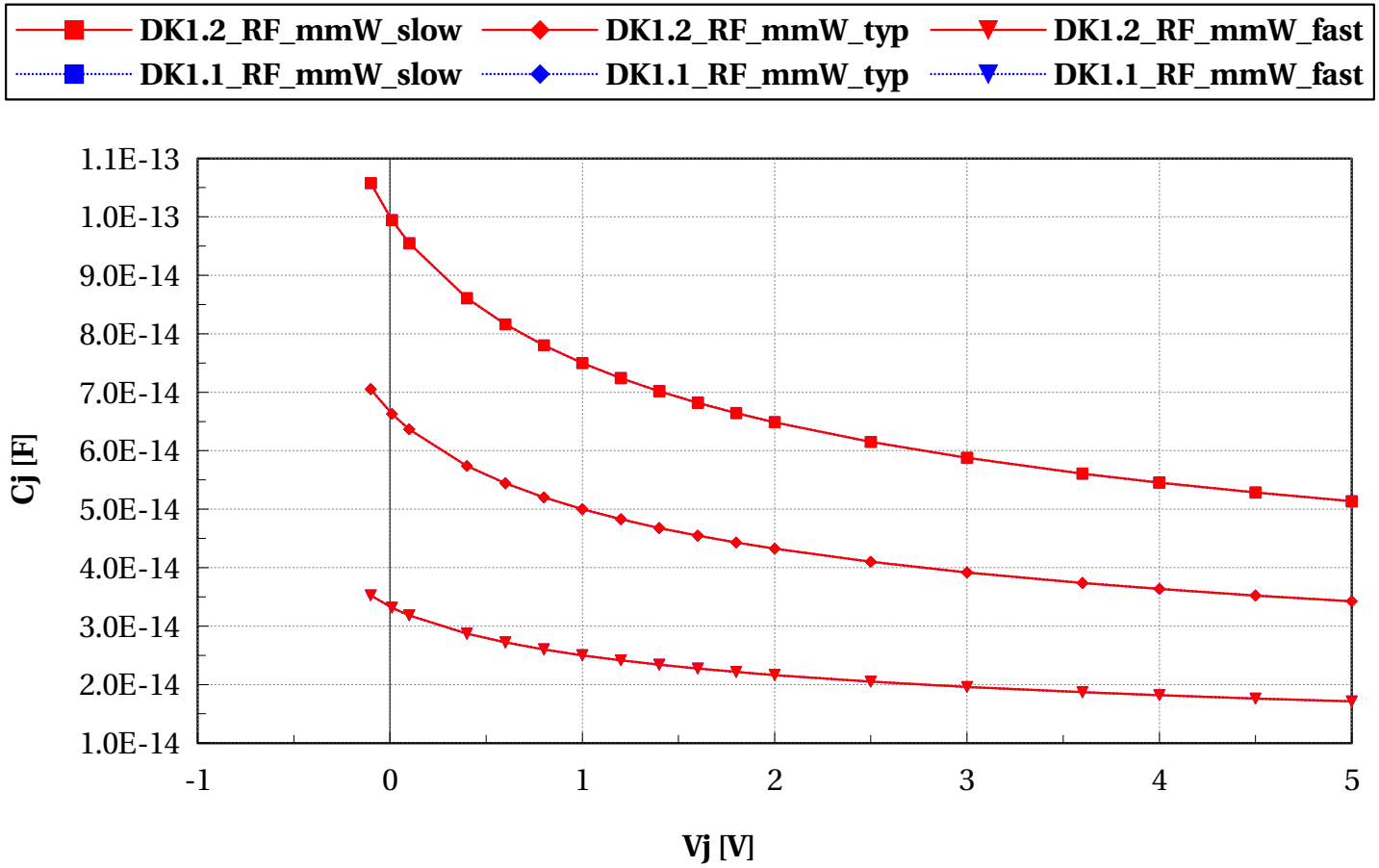
diodenwx, Cj [F] vs Vj [V]

area==2e-12 and Temp==25



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diodenwx, Ij [A] vs Vj [V]

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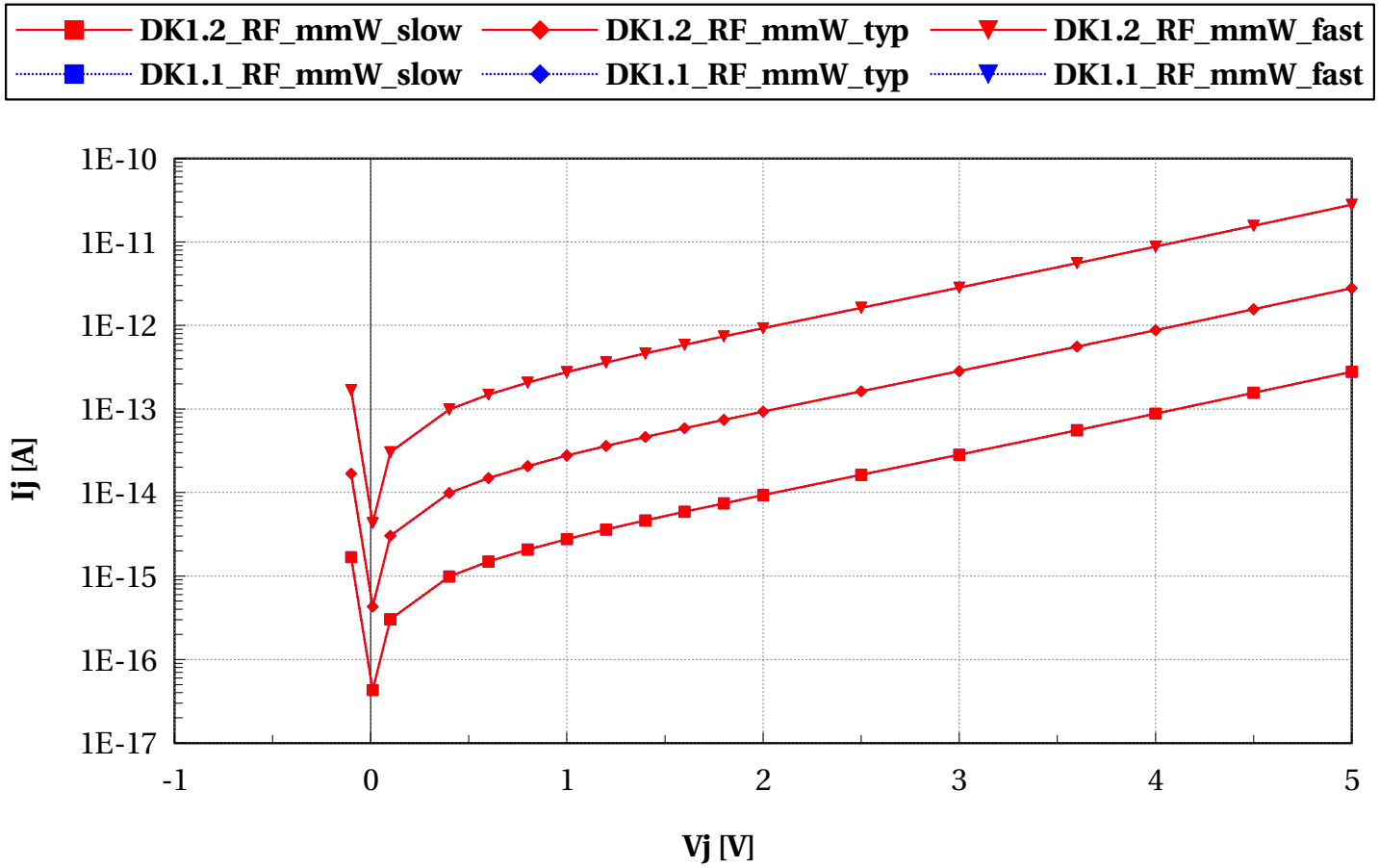

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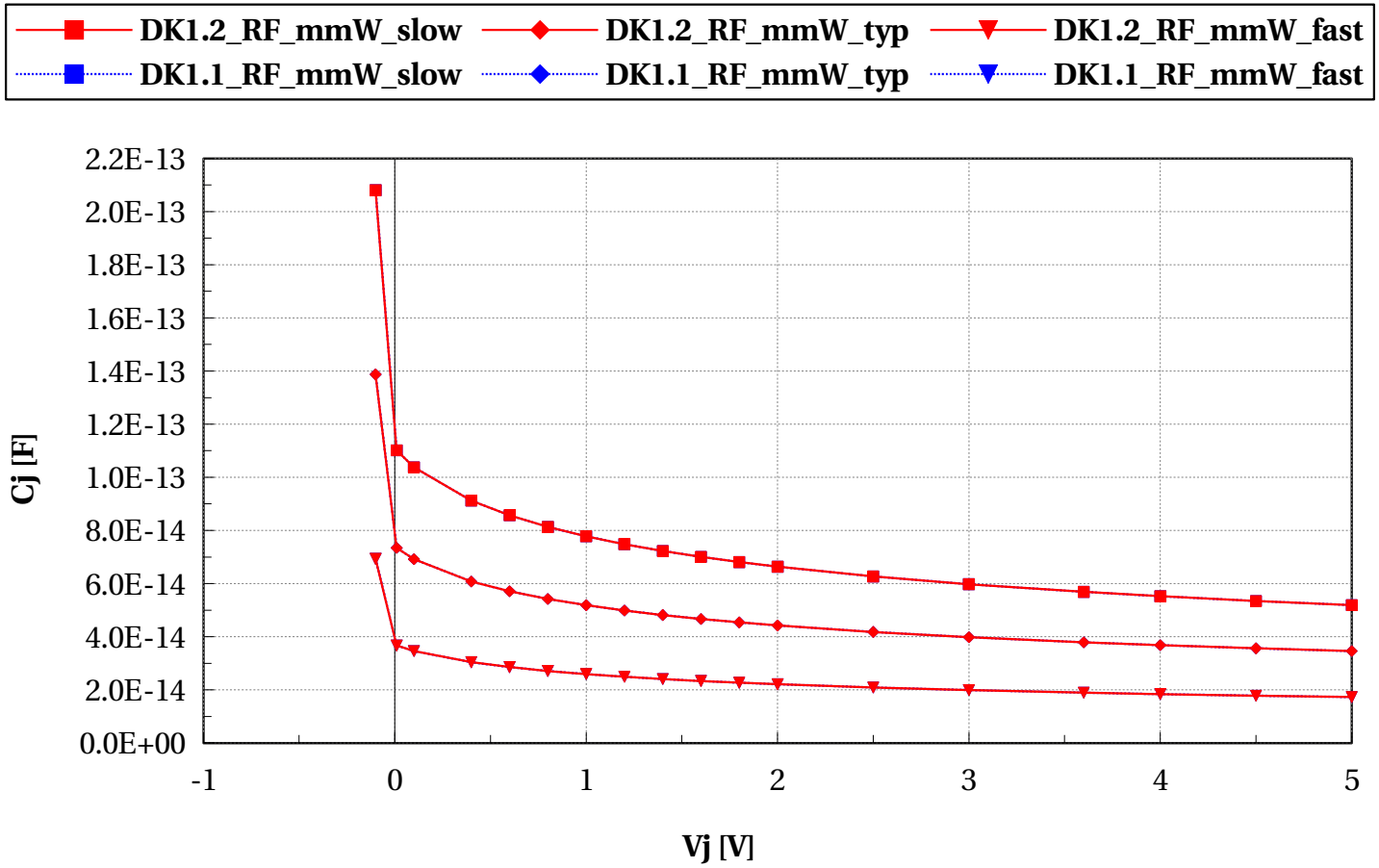
diodenwx, Cj [F] vs Vj [V]

area==2e-12 and Temp==125



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diodenwx, Ij [A] vs Vj [V]

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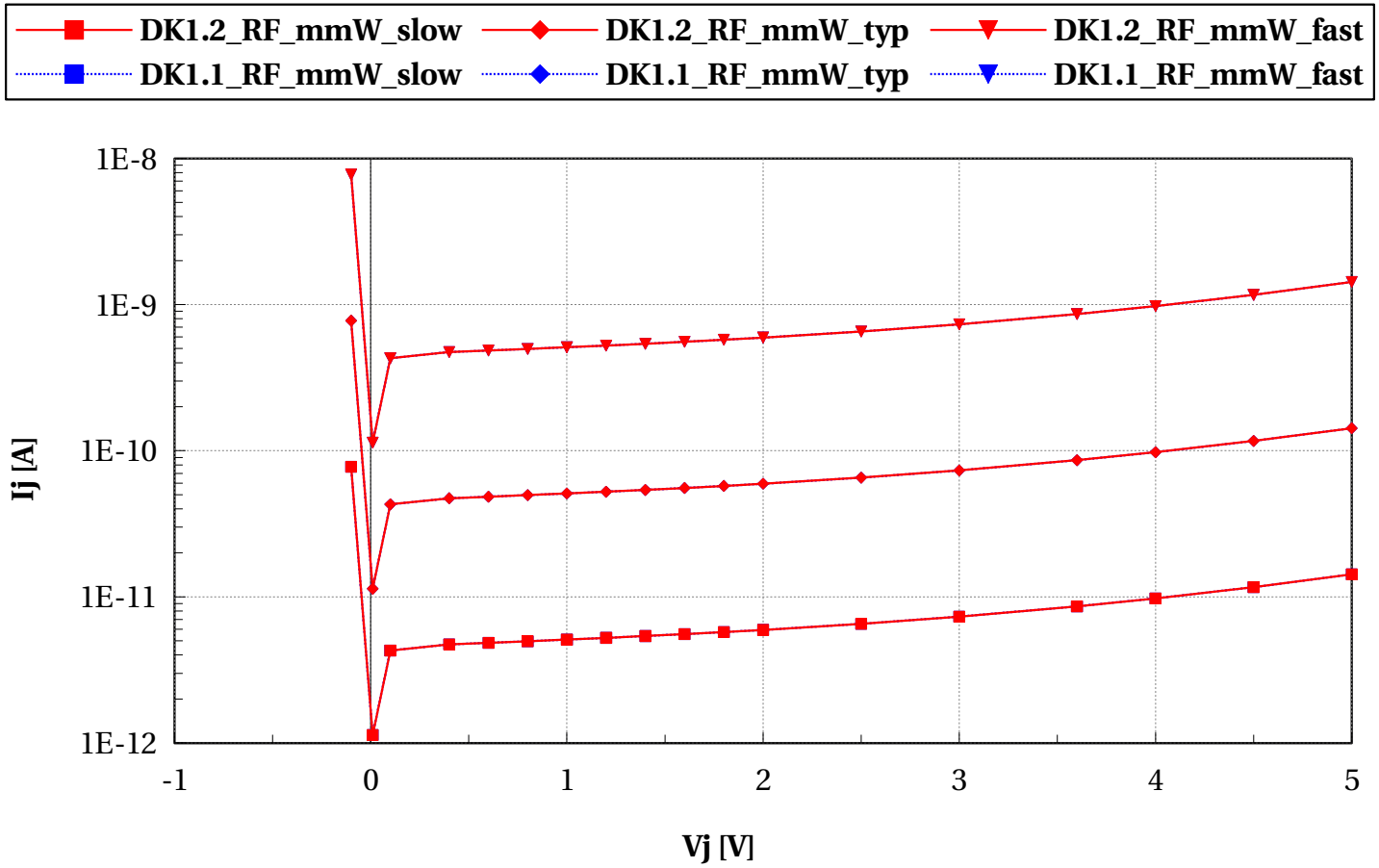

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Cj and Ij scaling versus Vj for Peri diode, Temp=25C & Temp=125C

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Cj and Ij scaling versus Temp for Area diode

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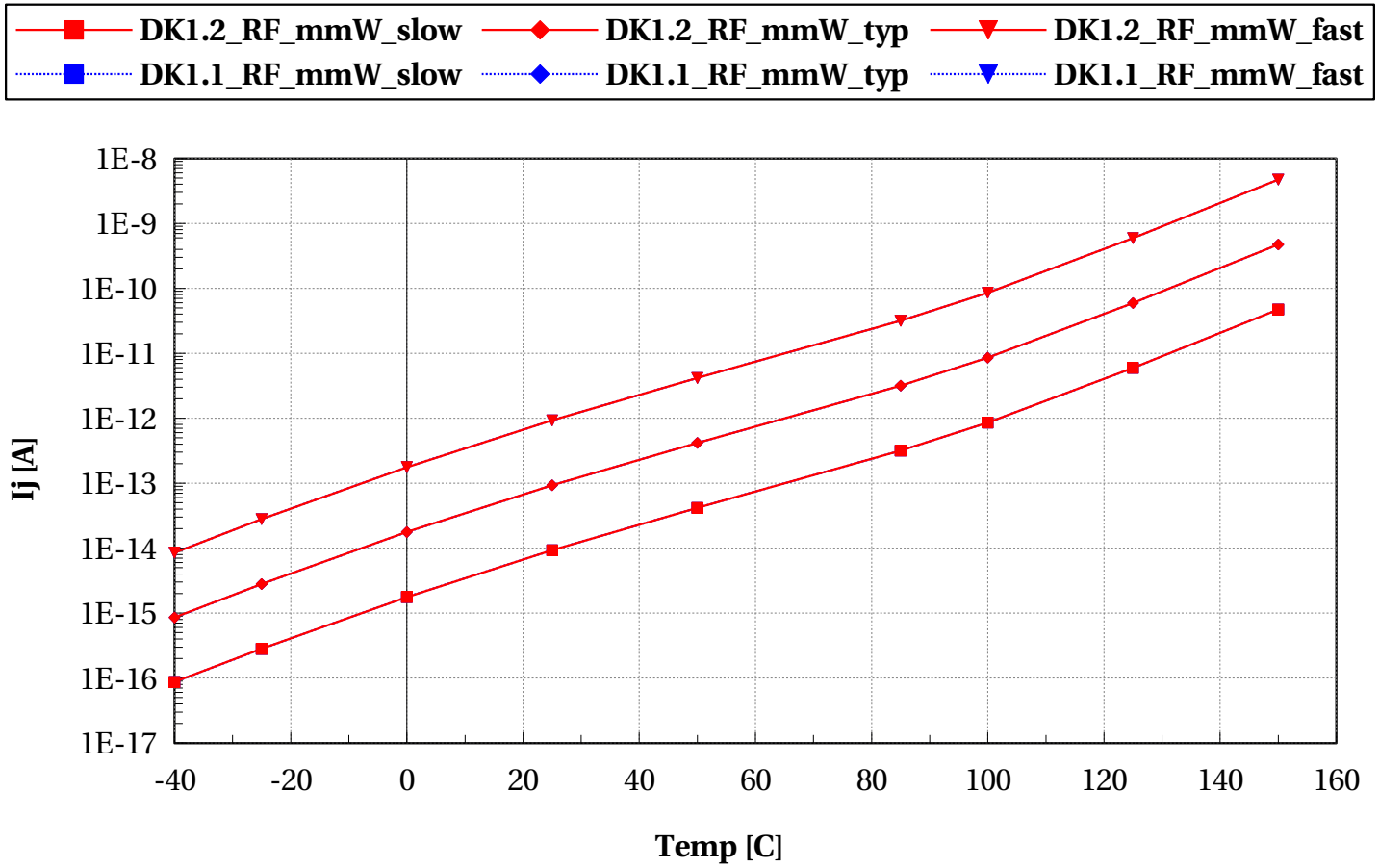
diodenwx, Ij [A] vs Temp [C]

area==2e-12 and Vj==2.0



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diodenwx, Cj [F] vs Temp [C]

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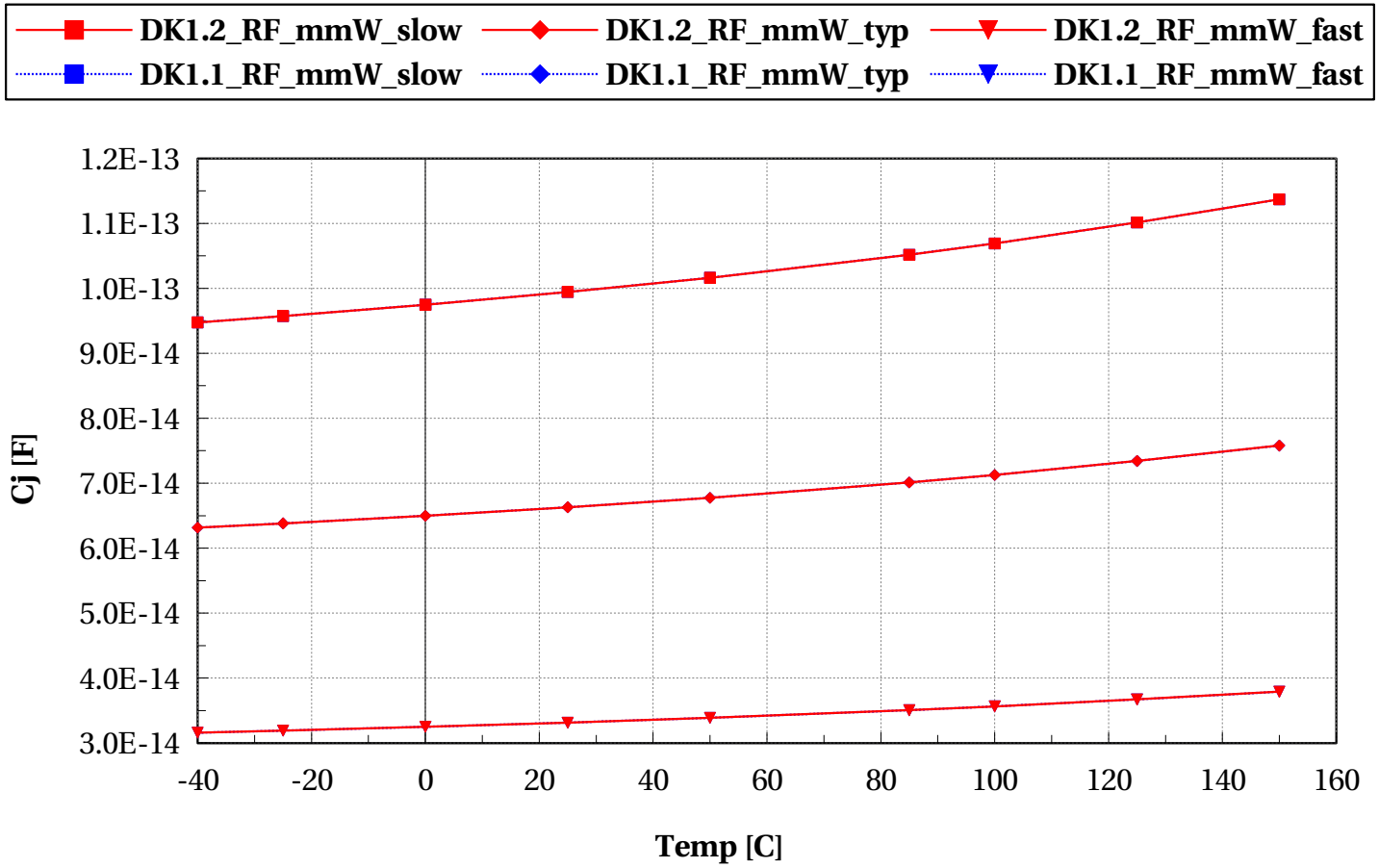

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Cj and Ij scaling versus Temp for Peri diode

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Cj and Ij scaling versus Vj for Area diode, Temp=25C & Temp=125C

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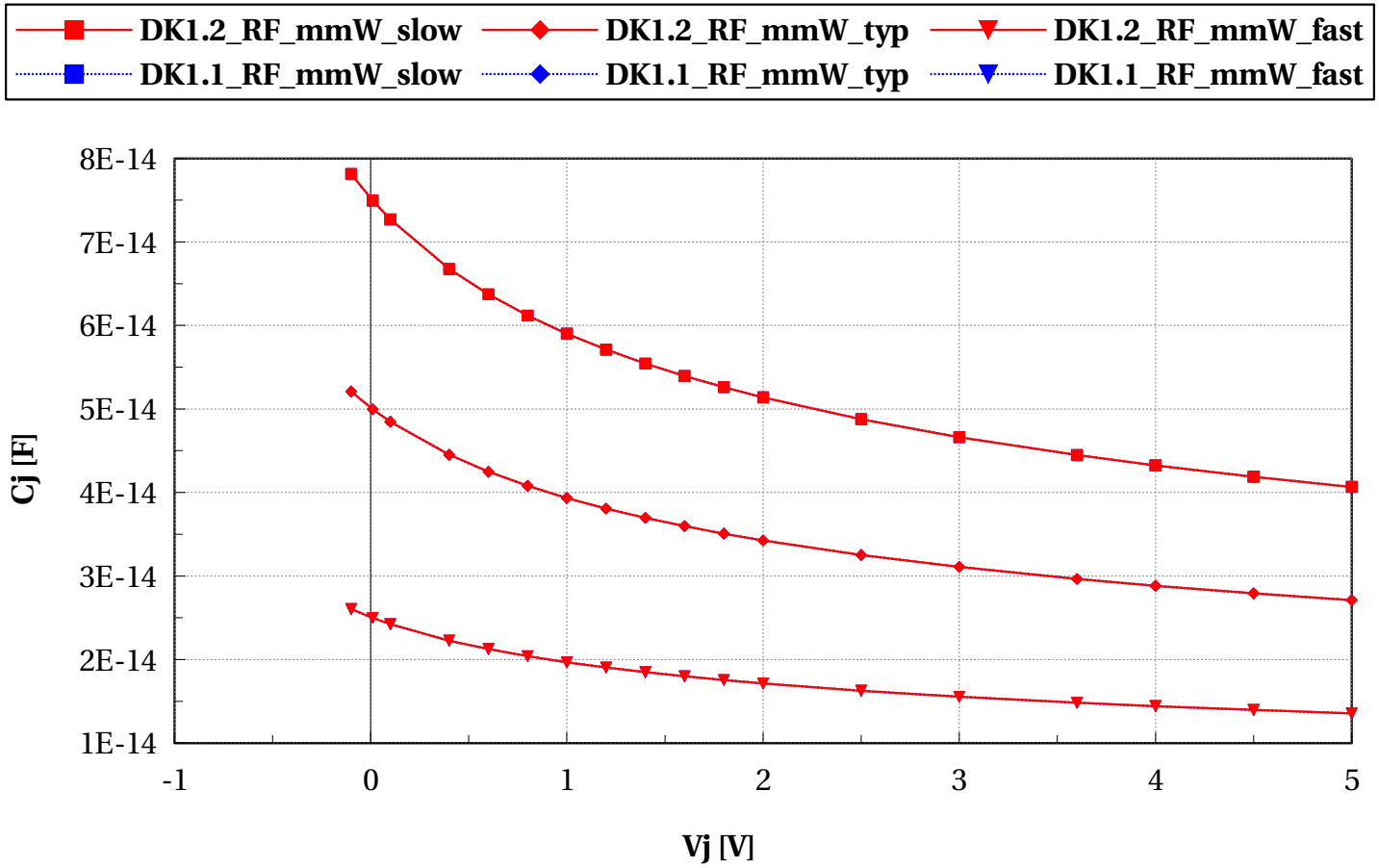

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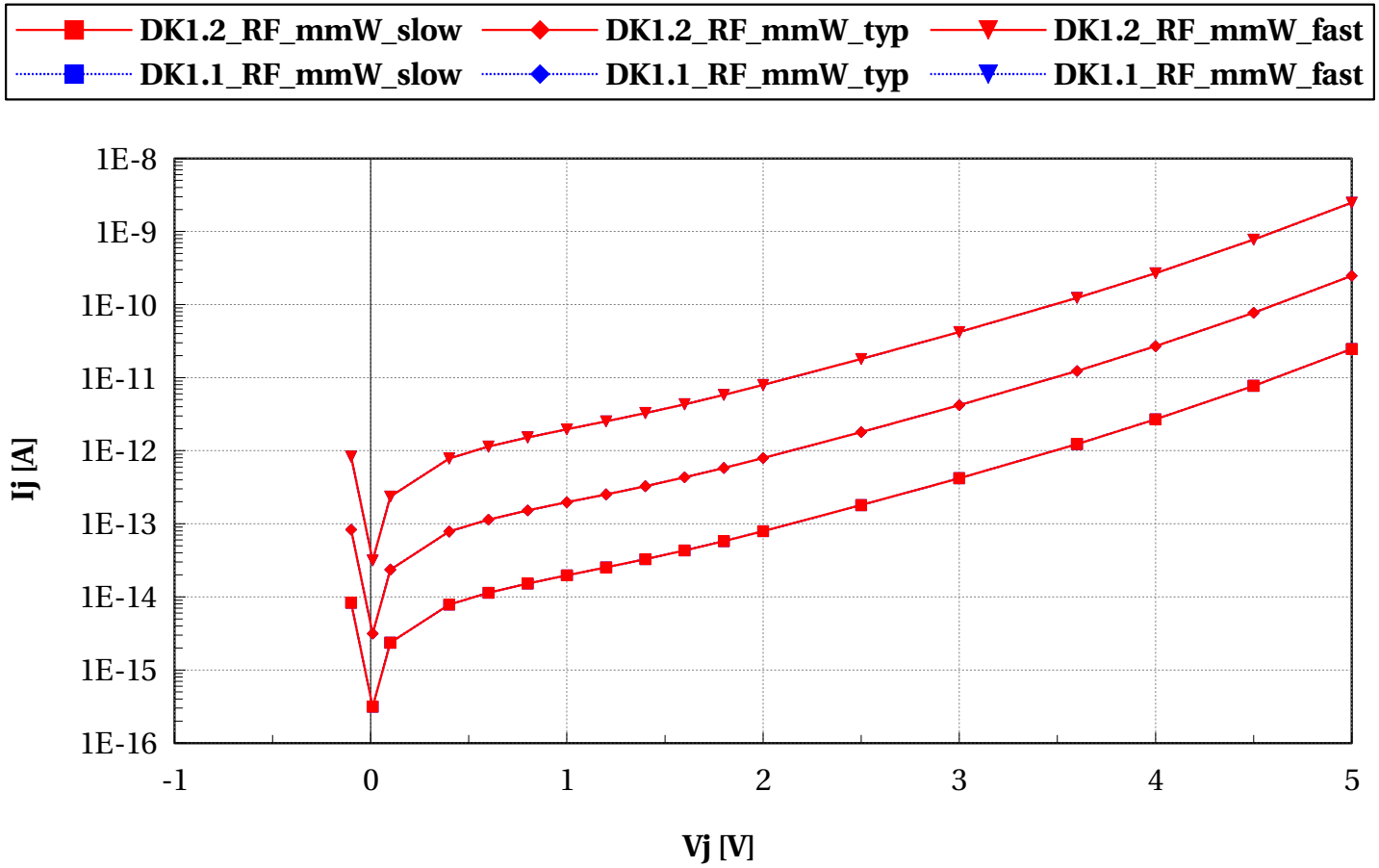

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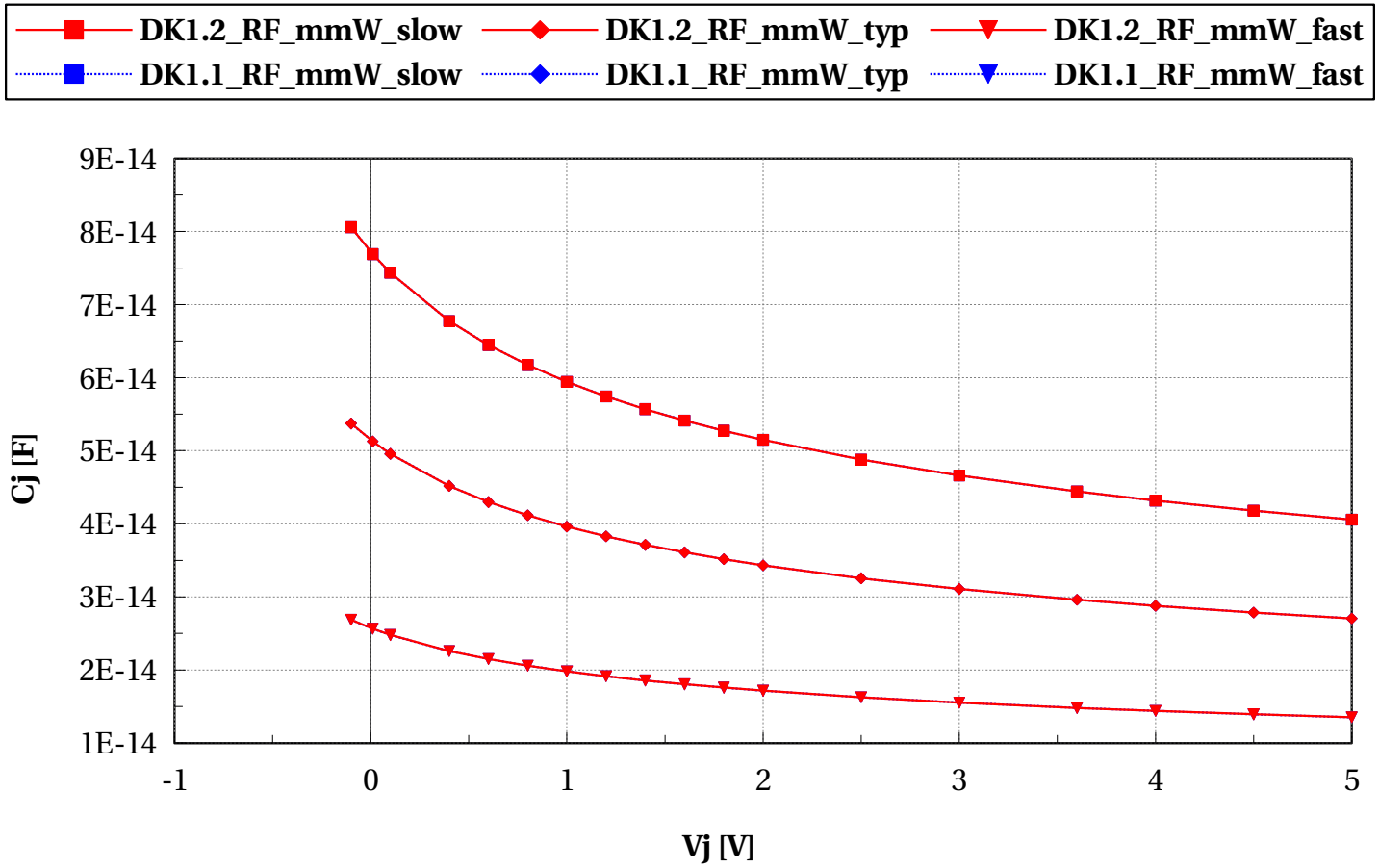

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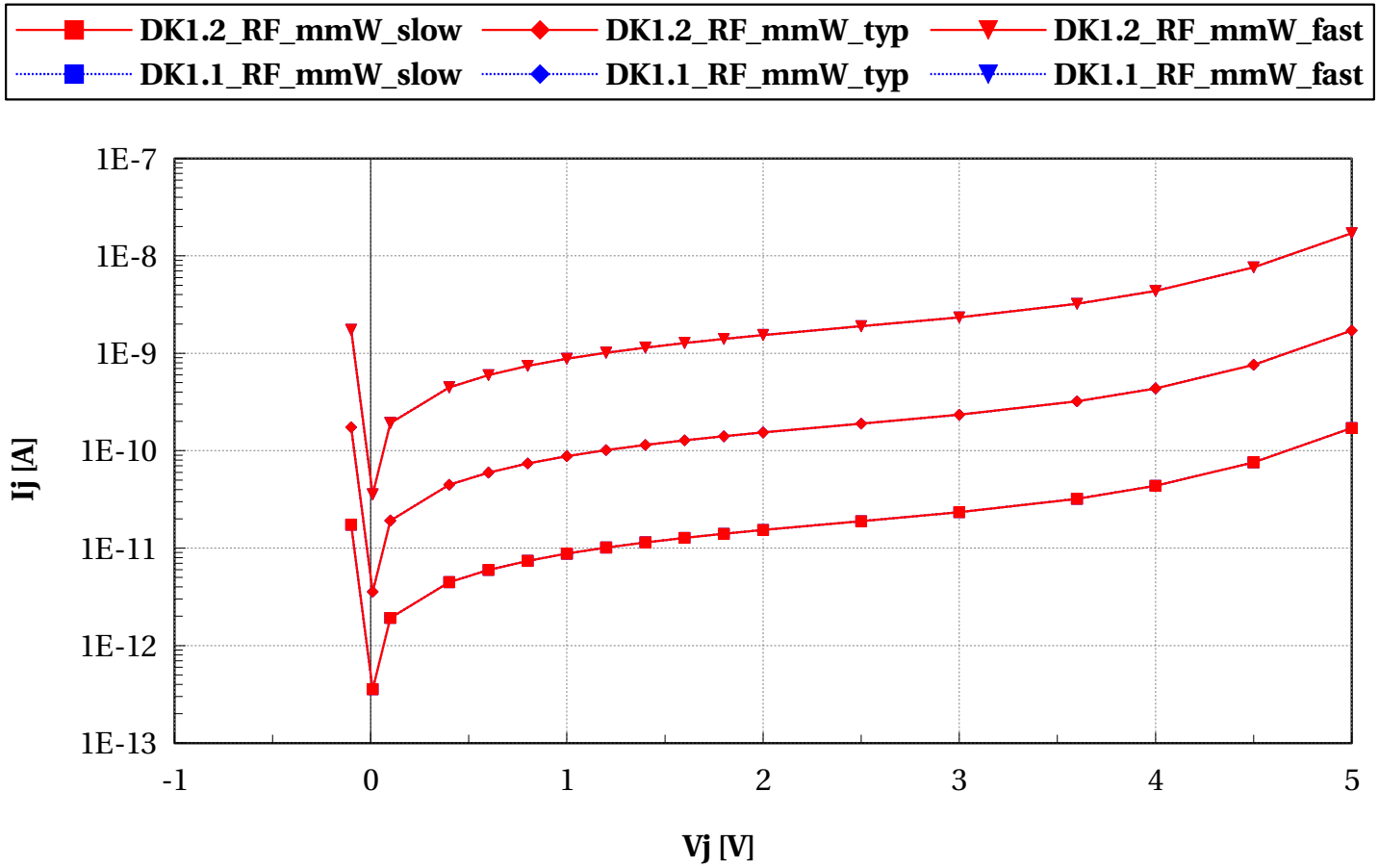

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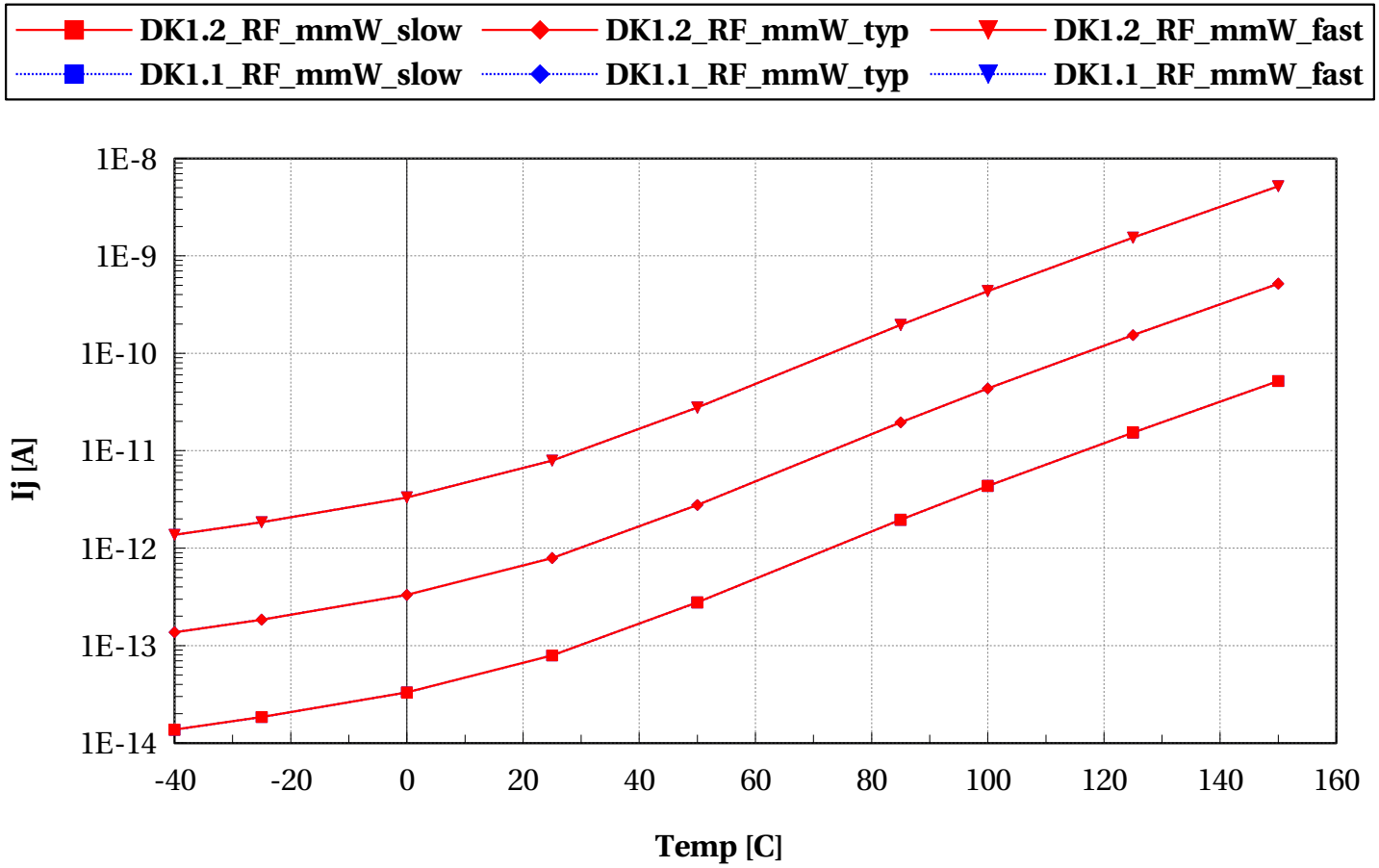

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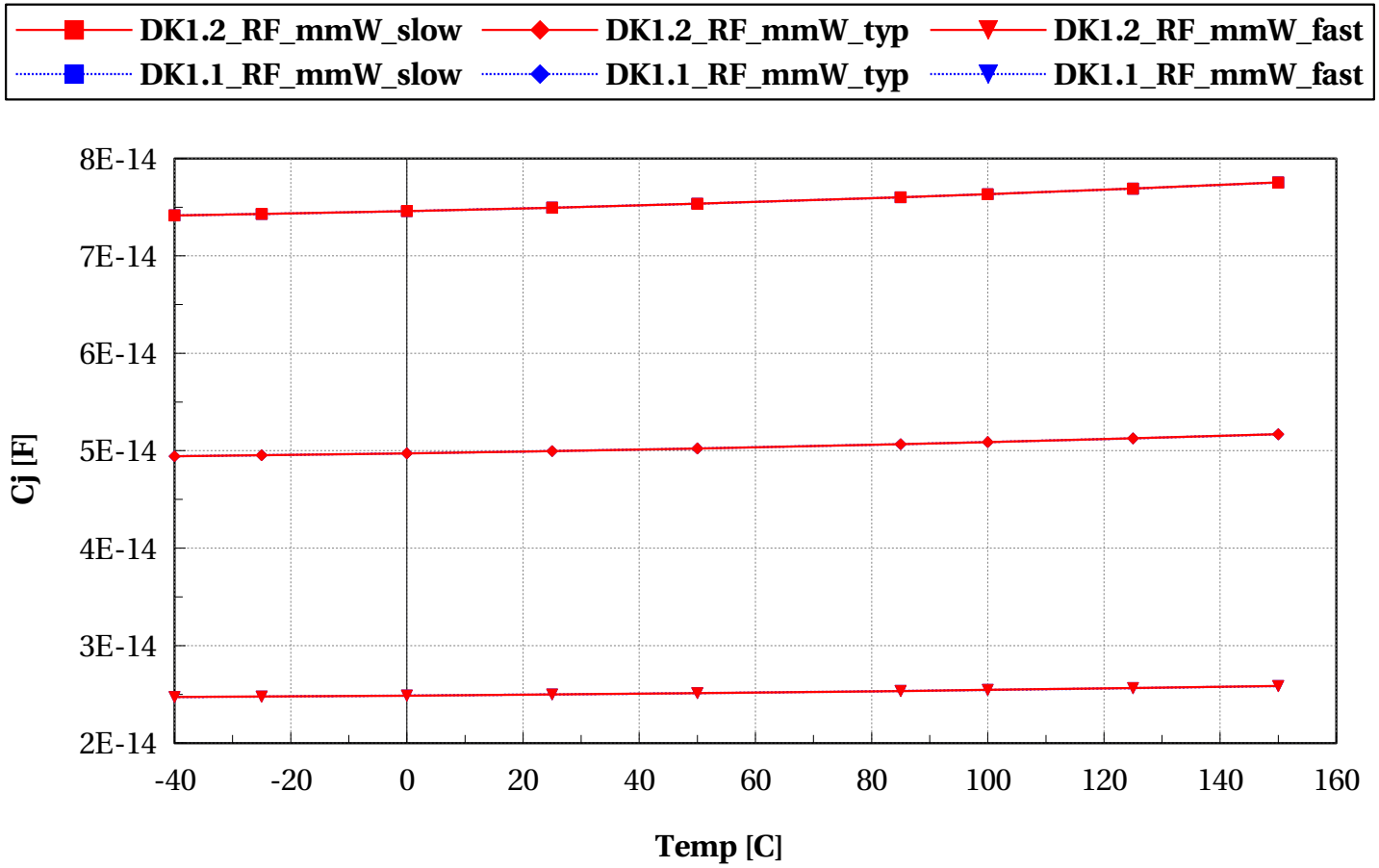

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Cj and Ij scaling versus Temp for Peri diode

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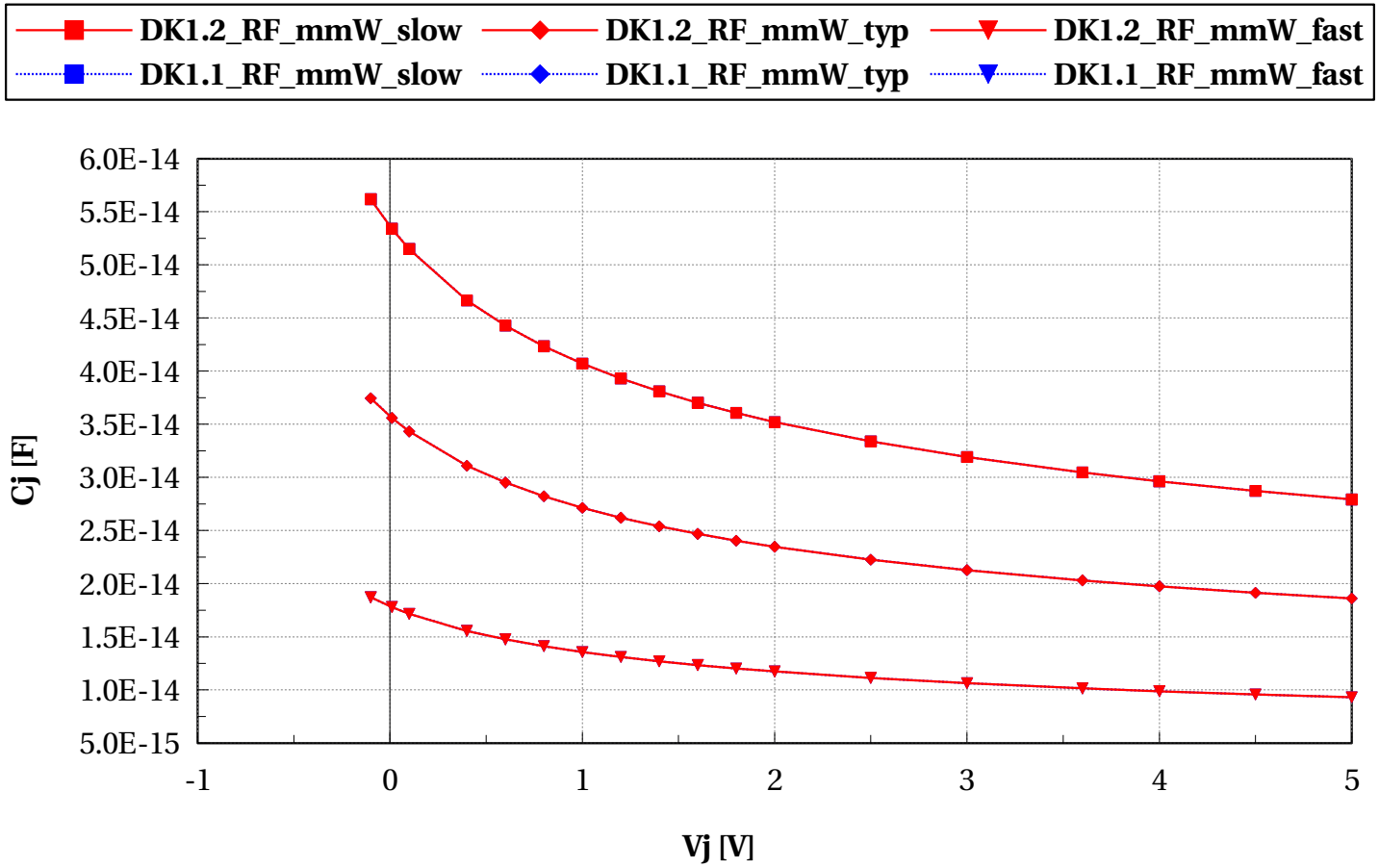

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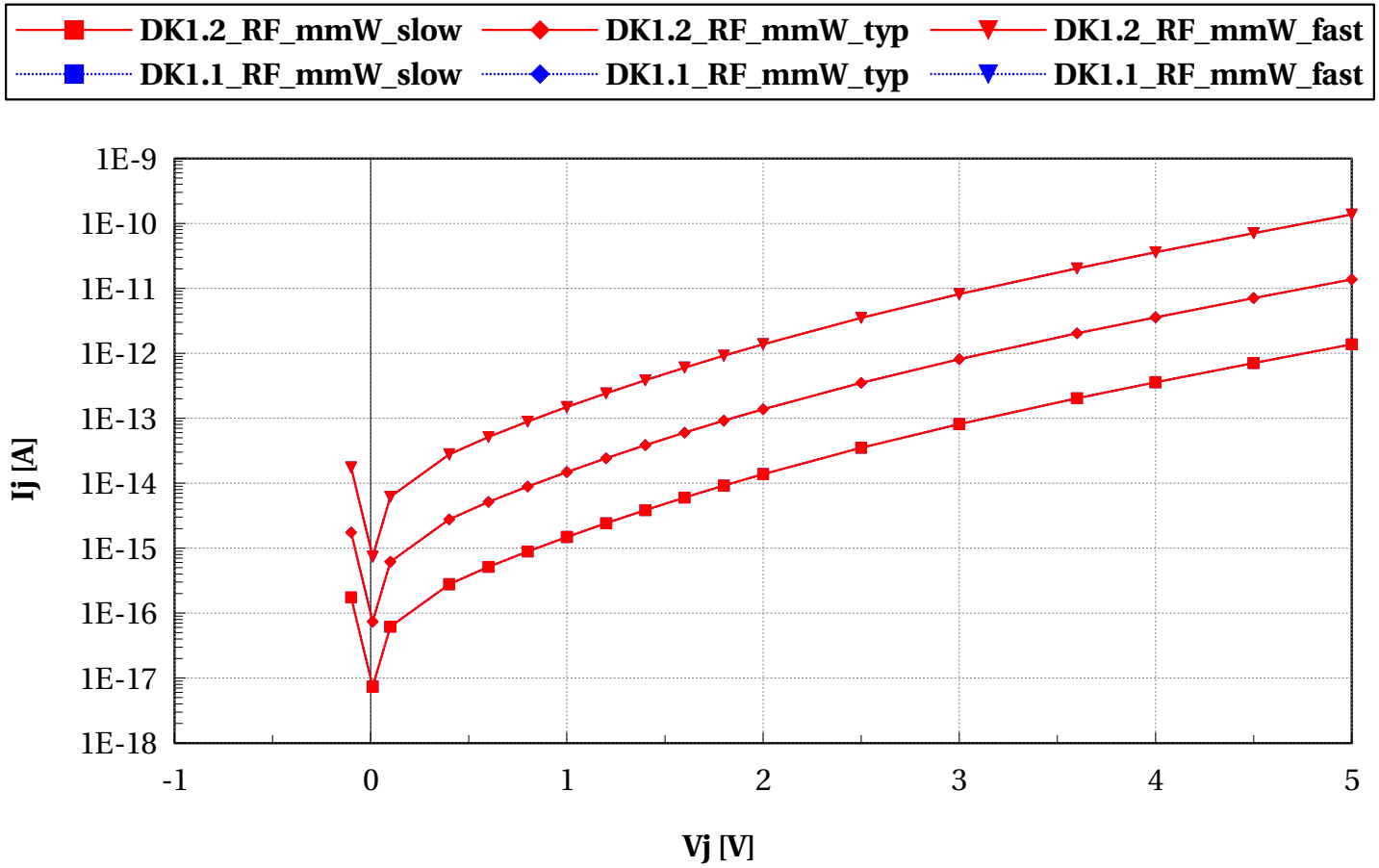

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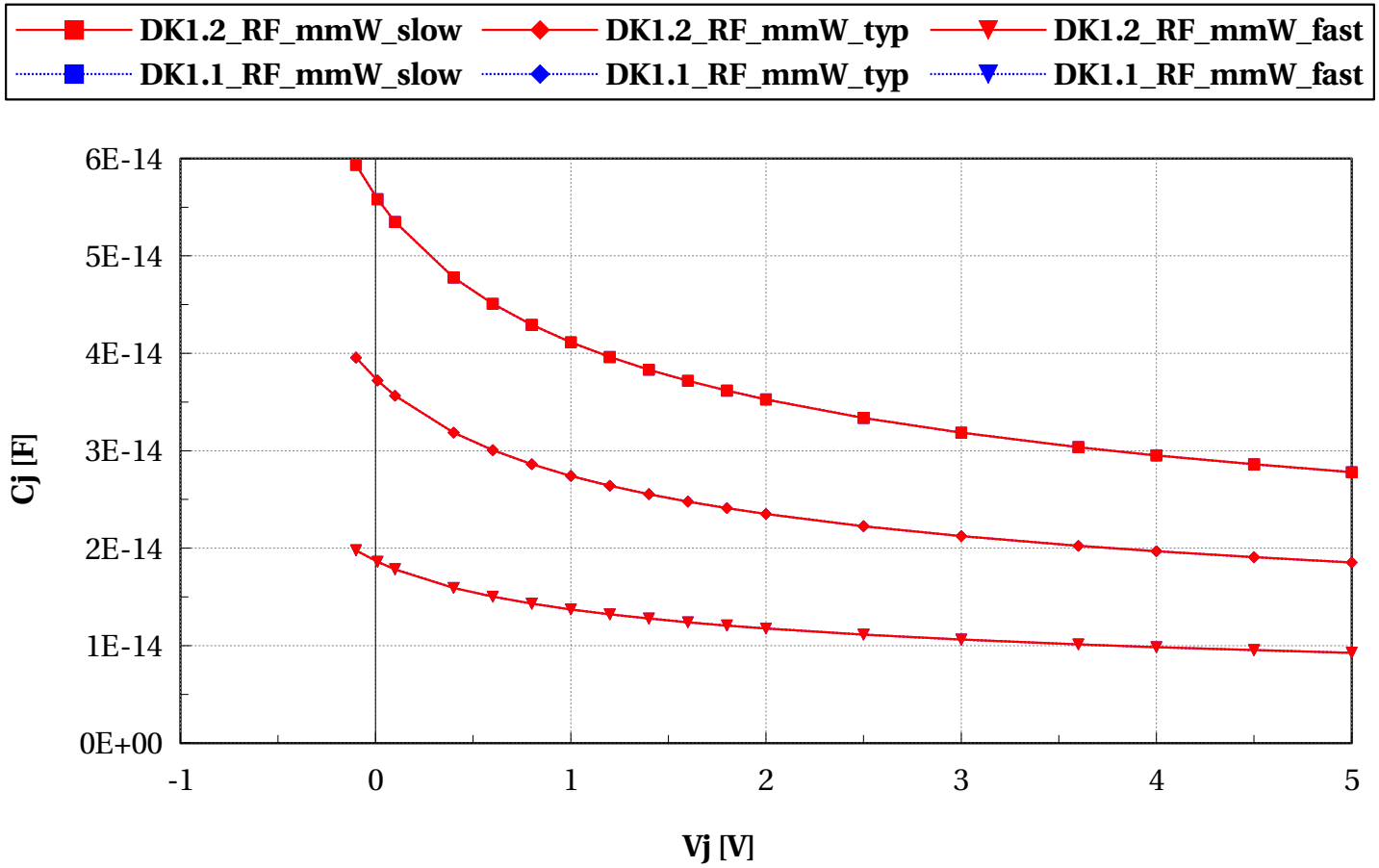

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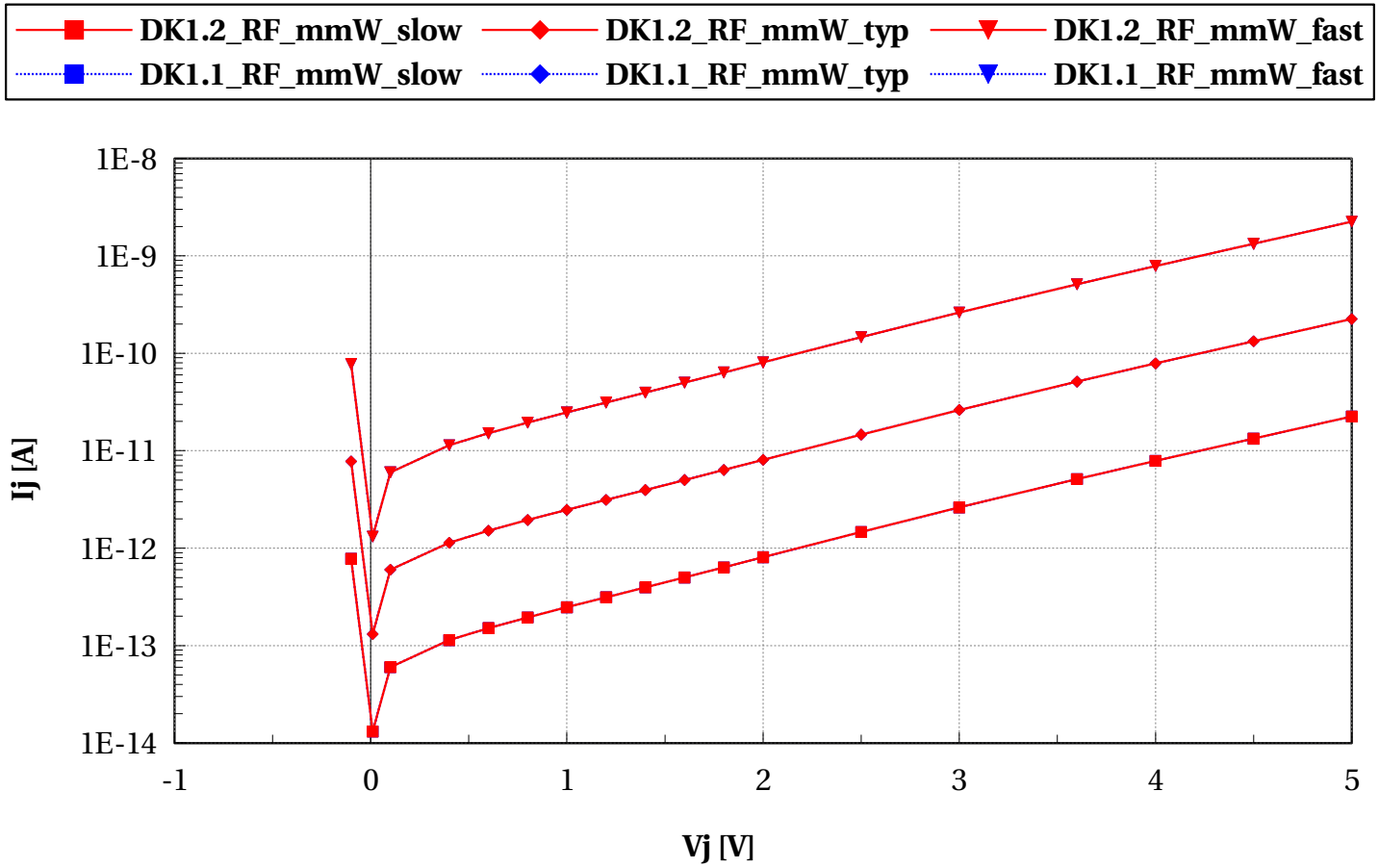

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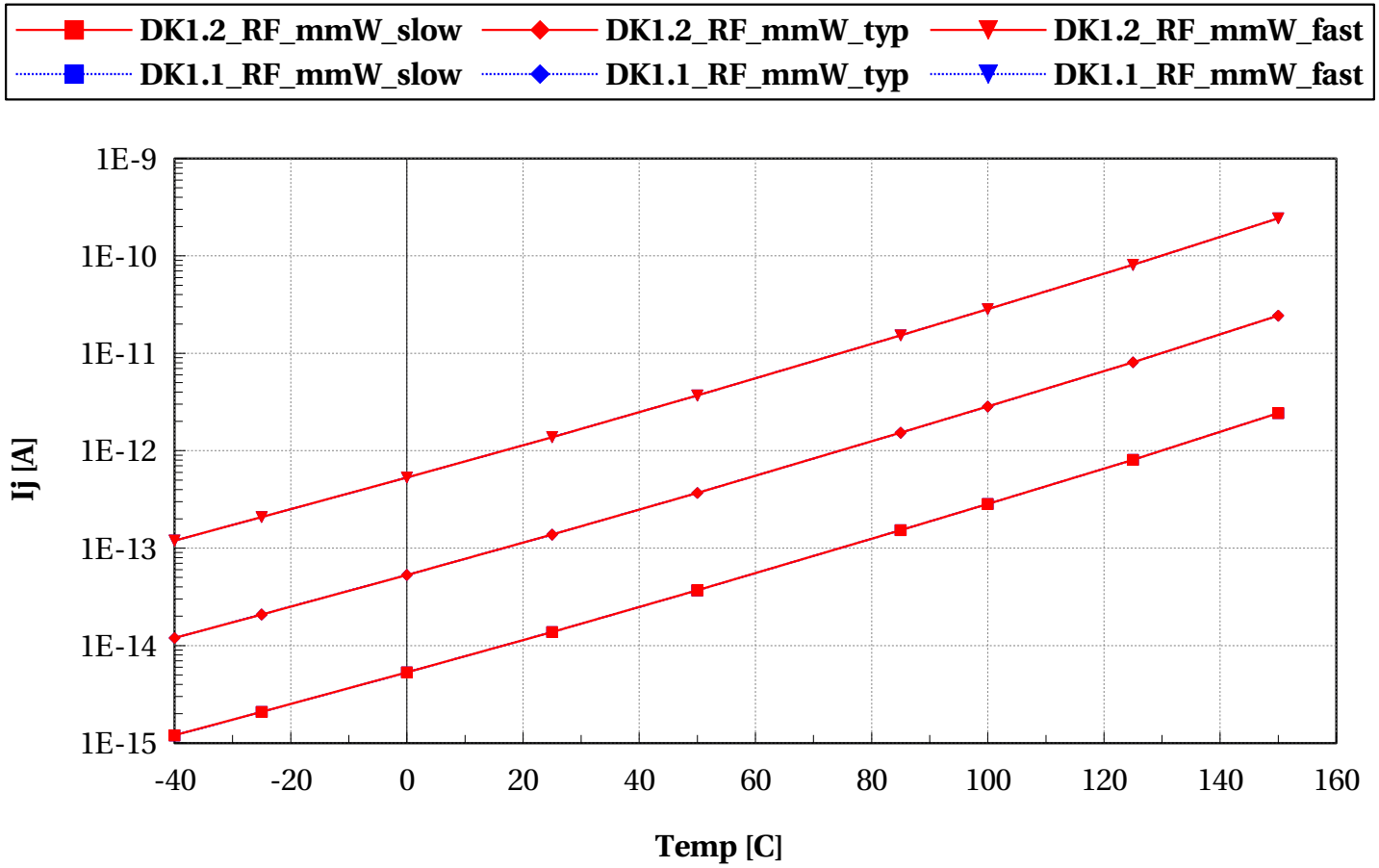

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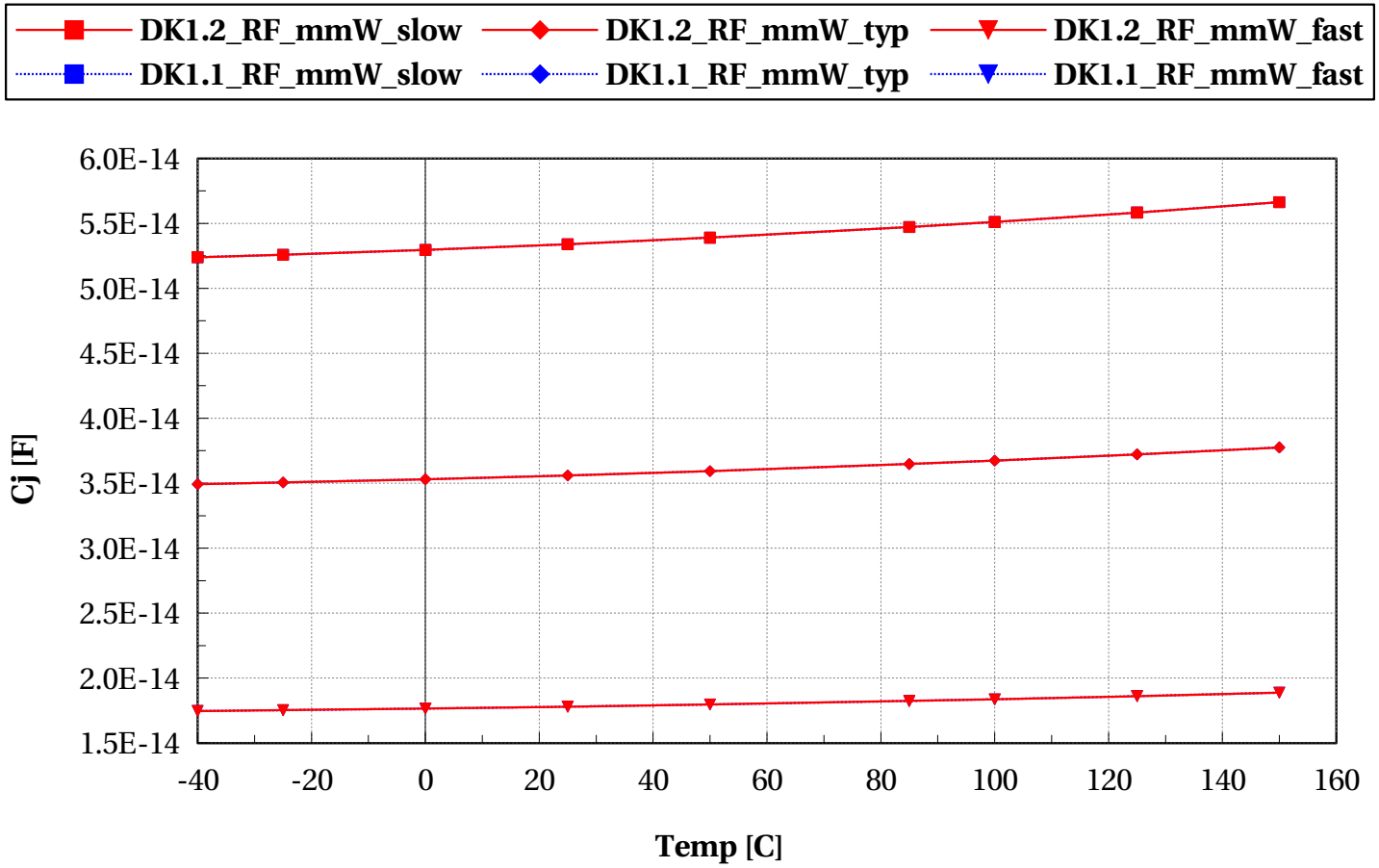

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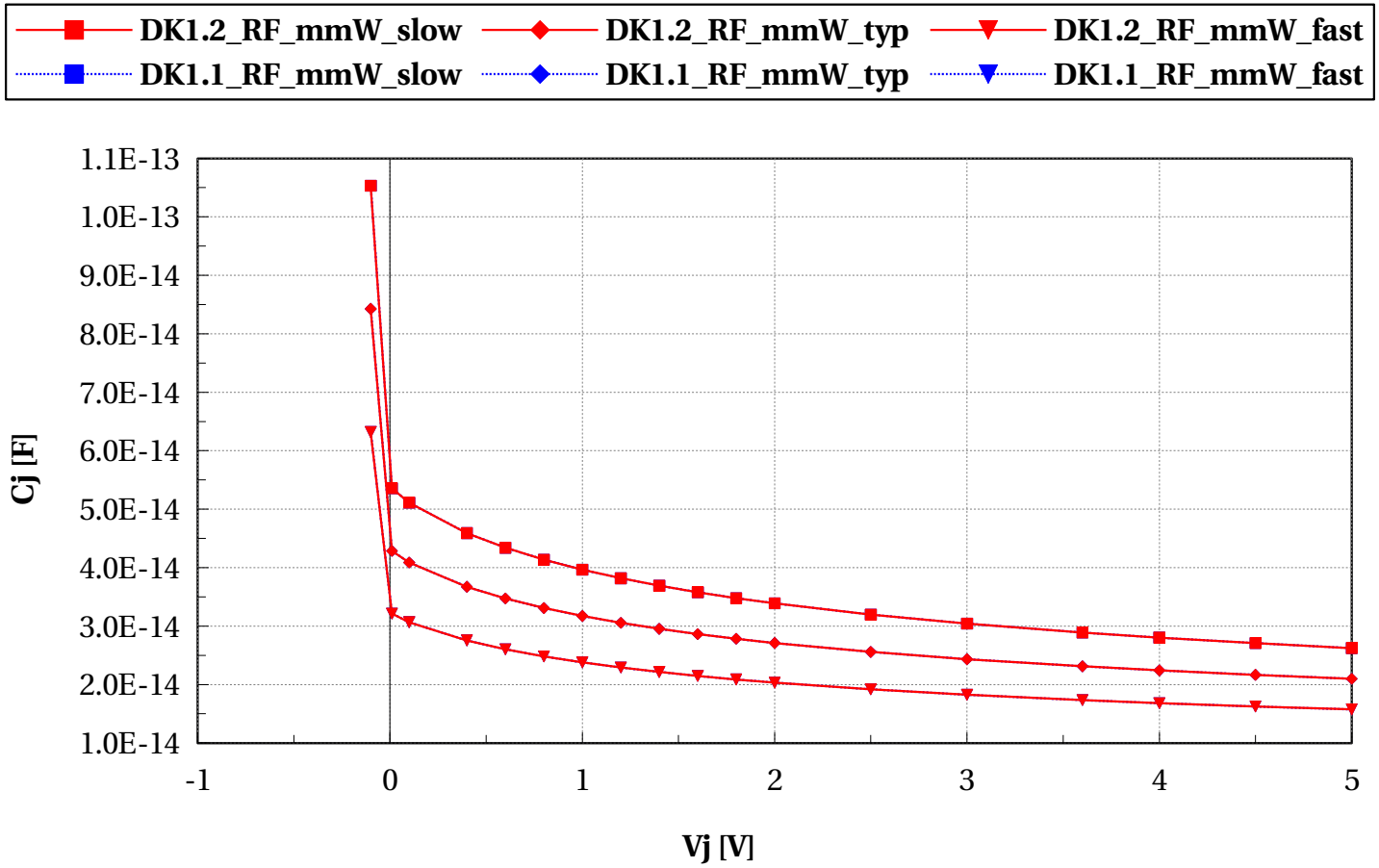

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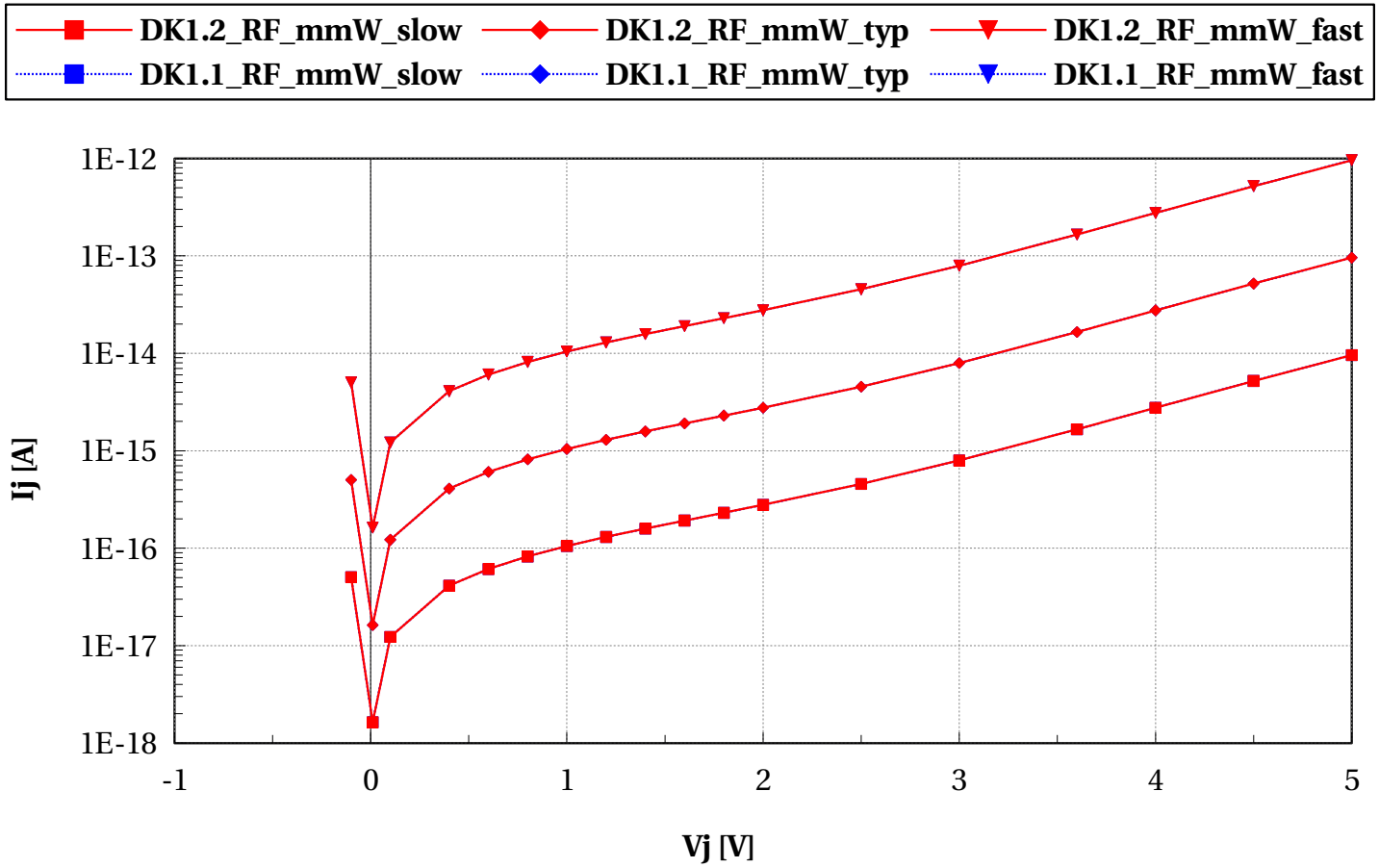

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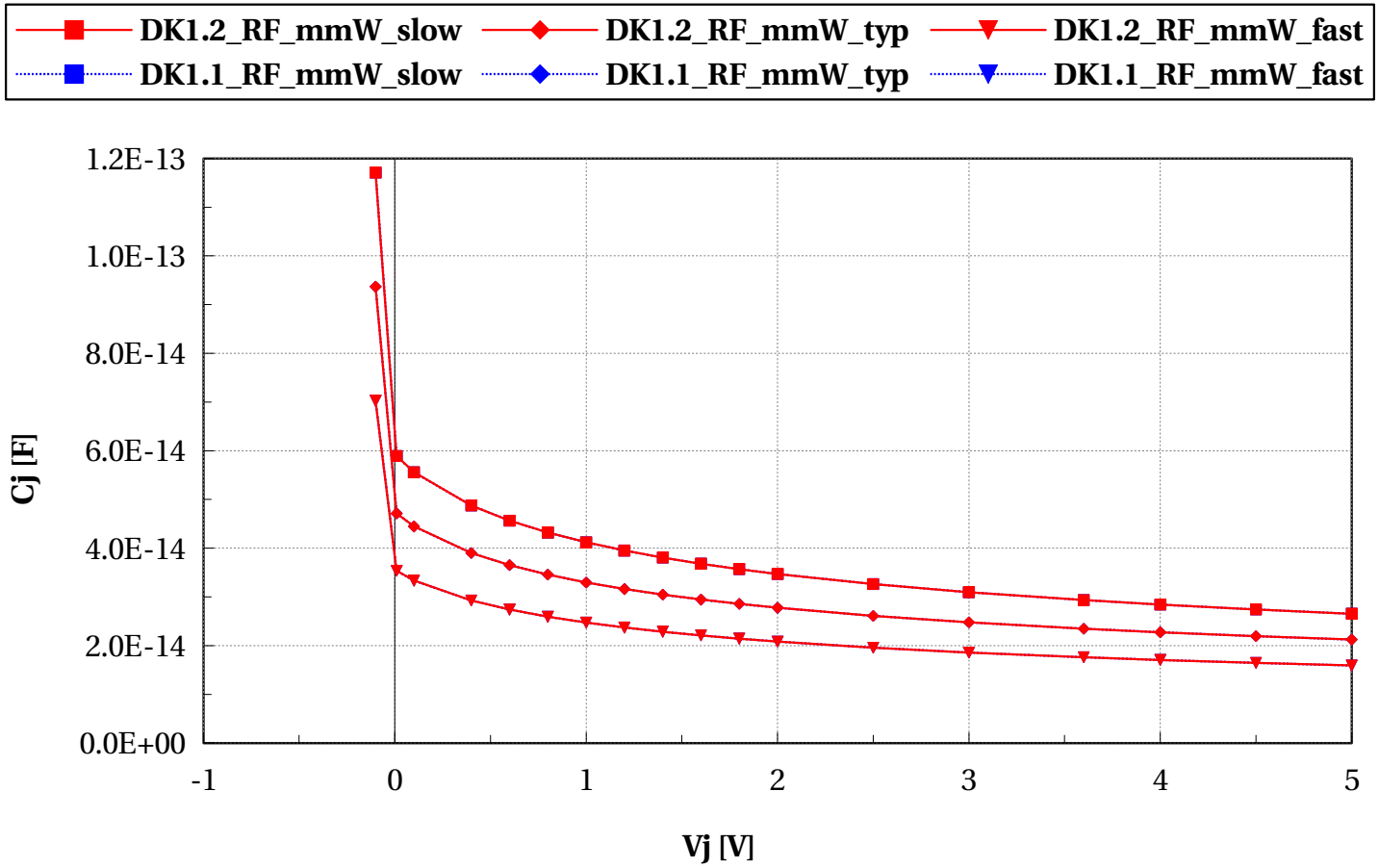

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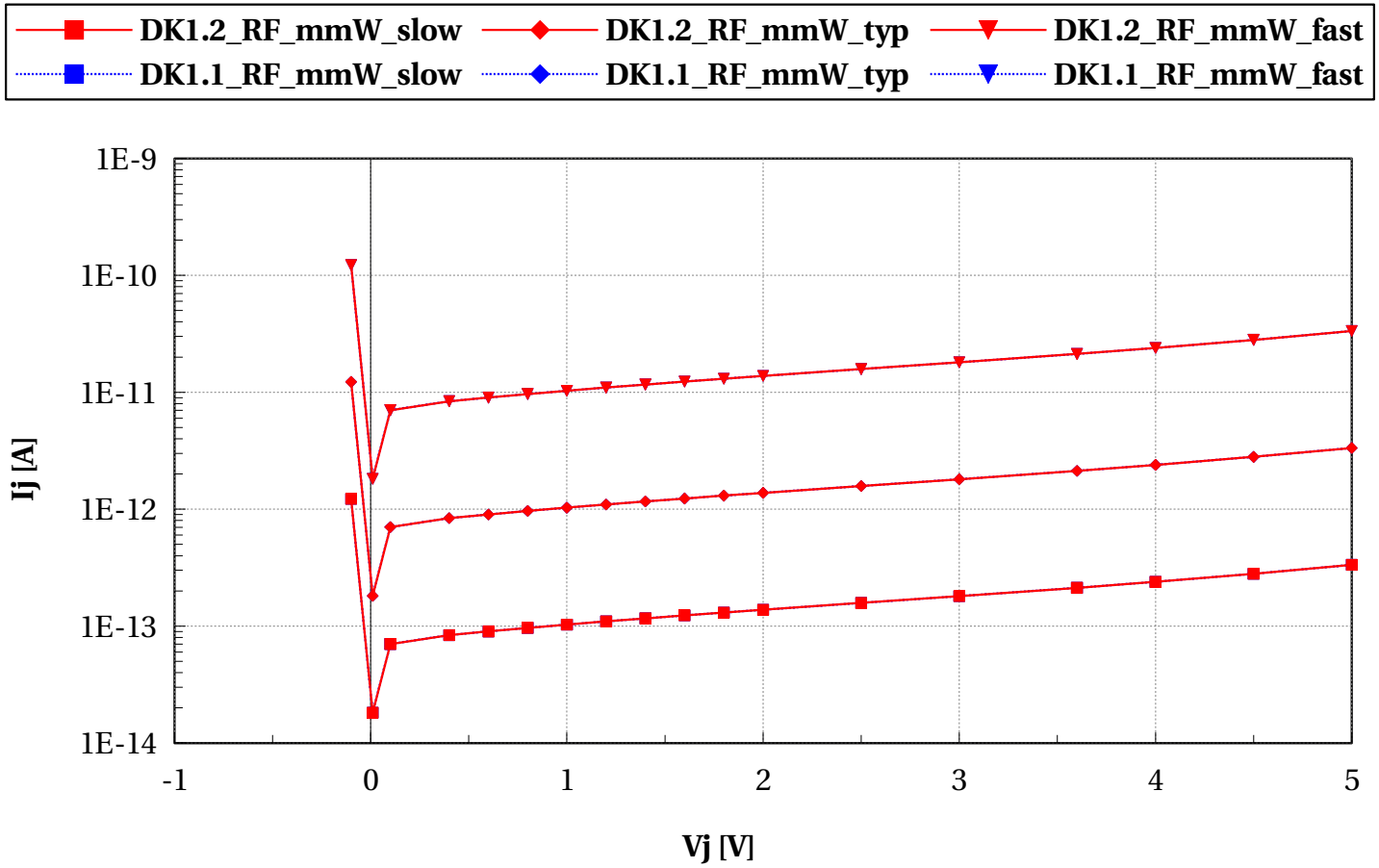

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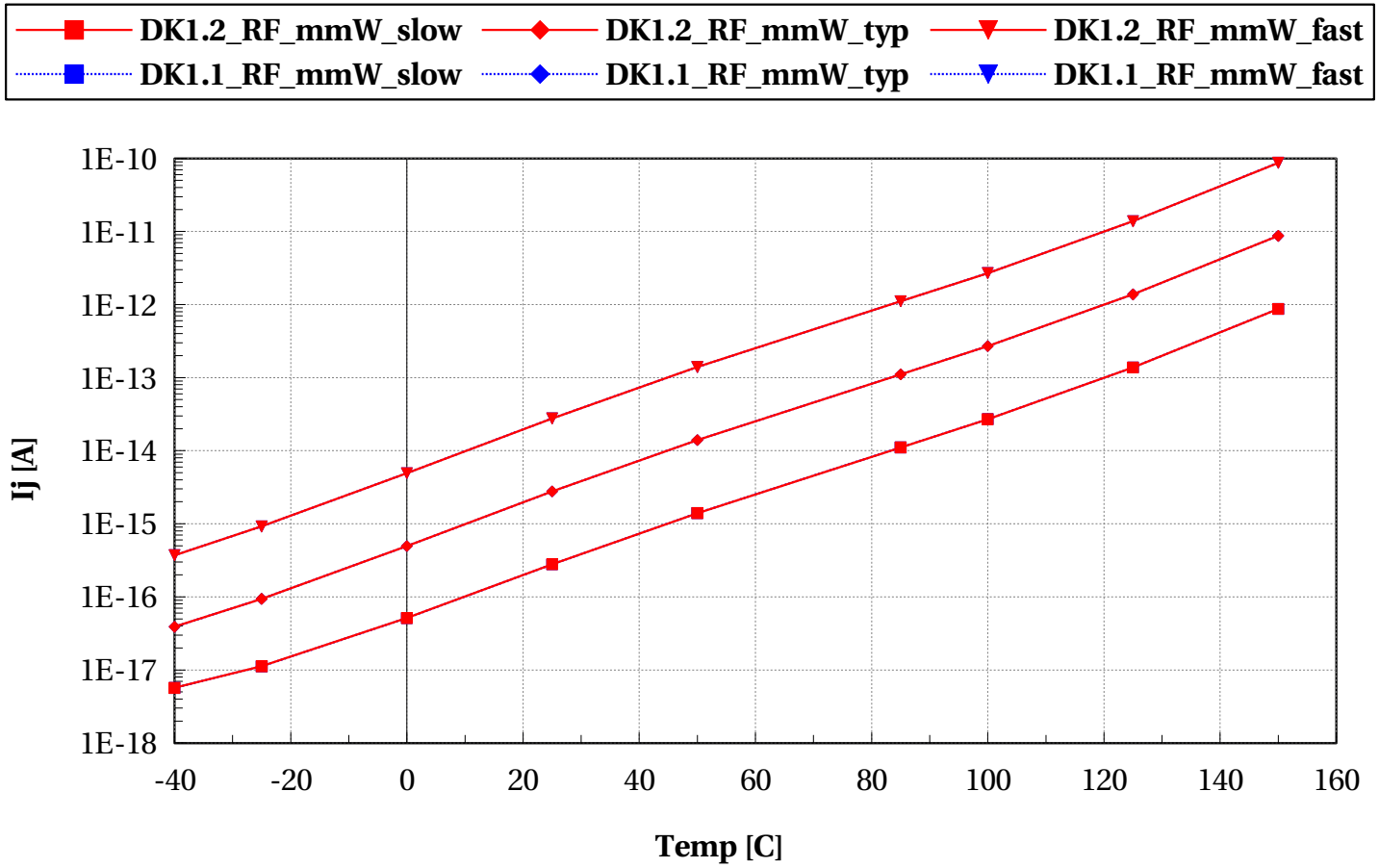

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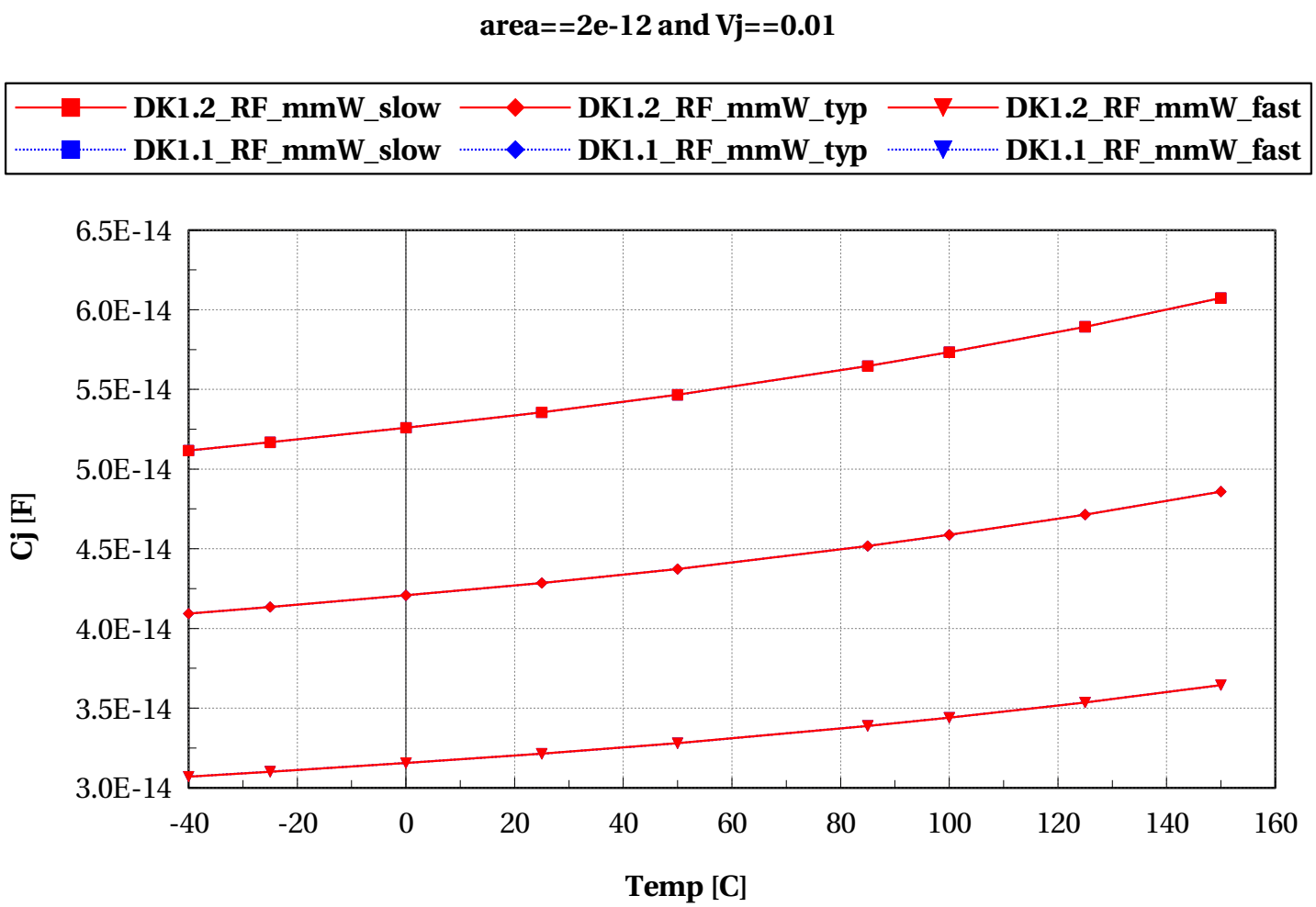

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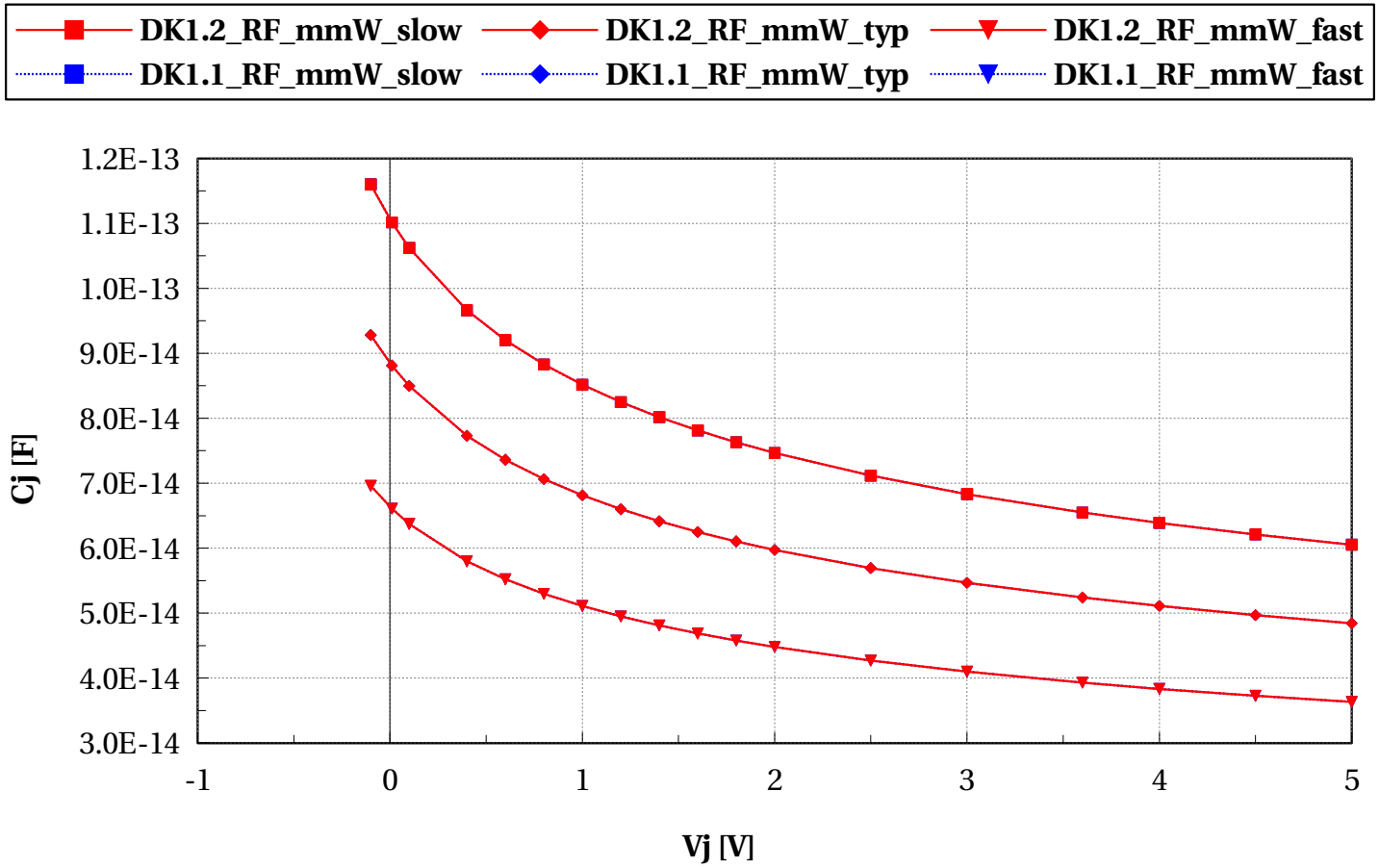

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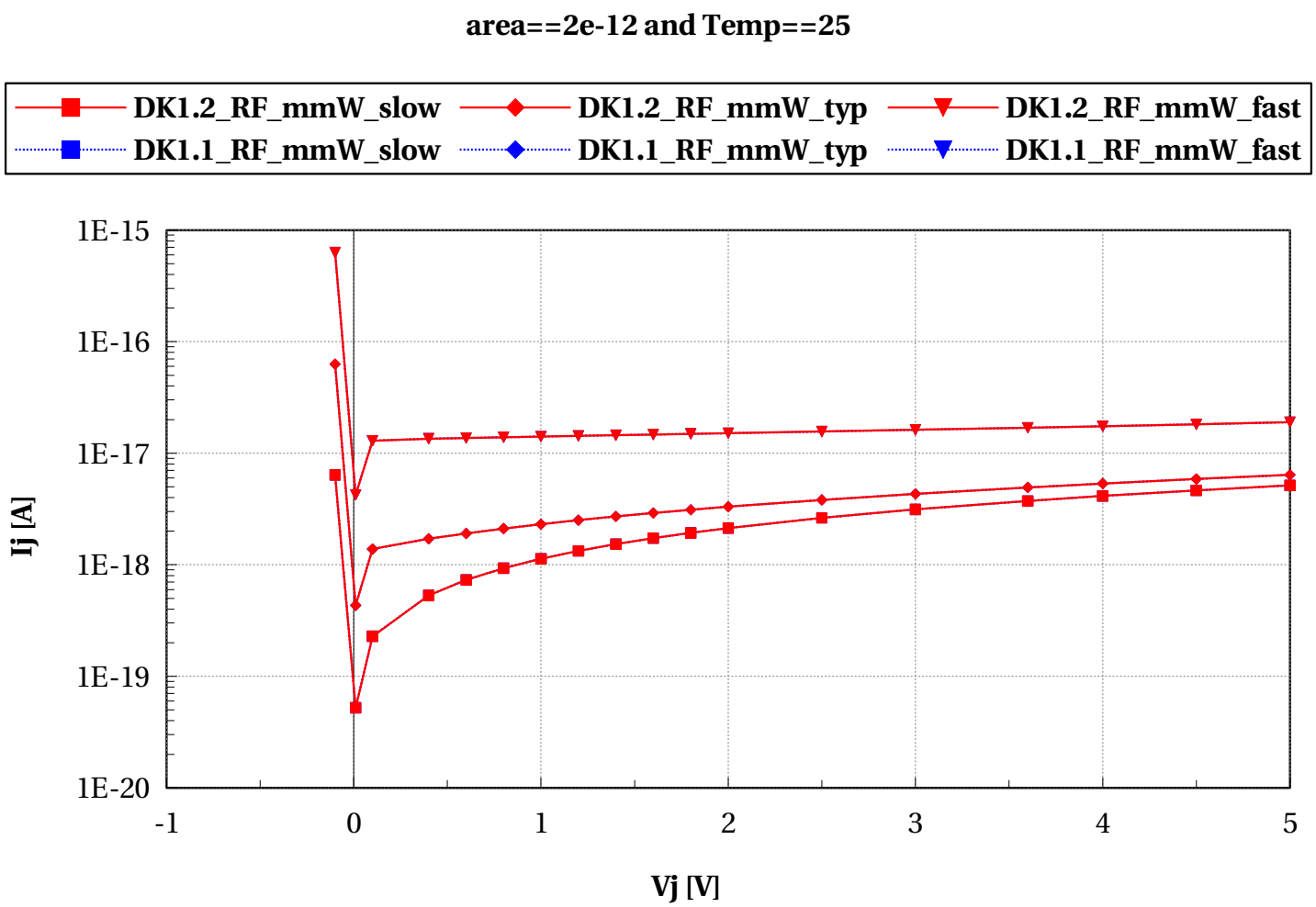

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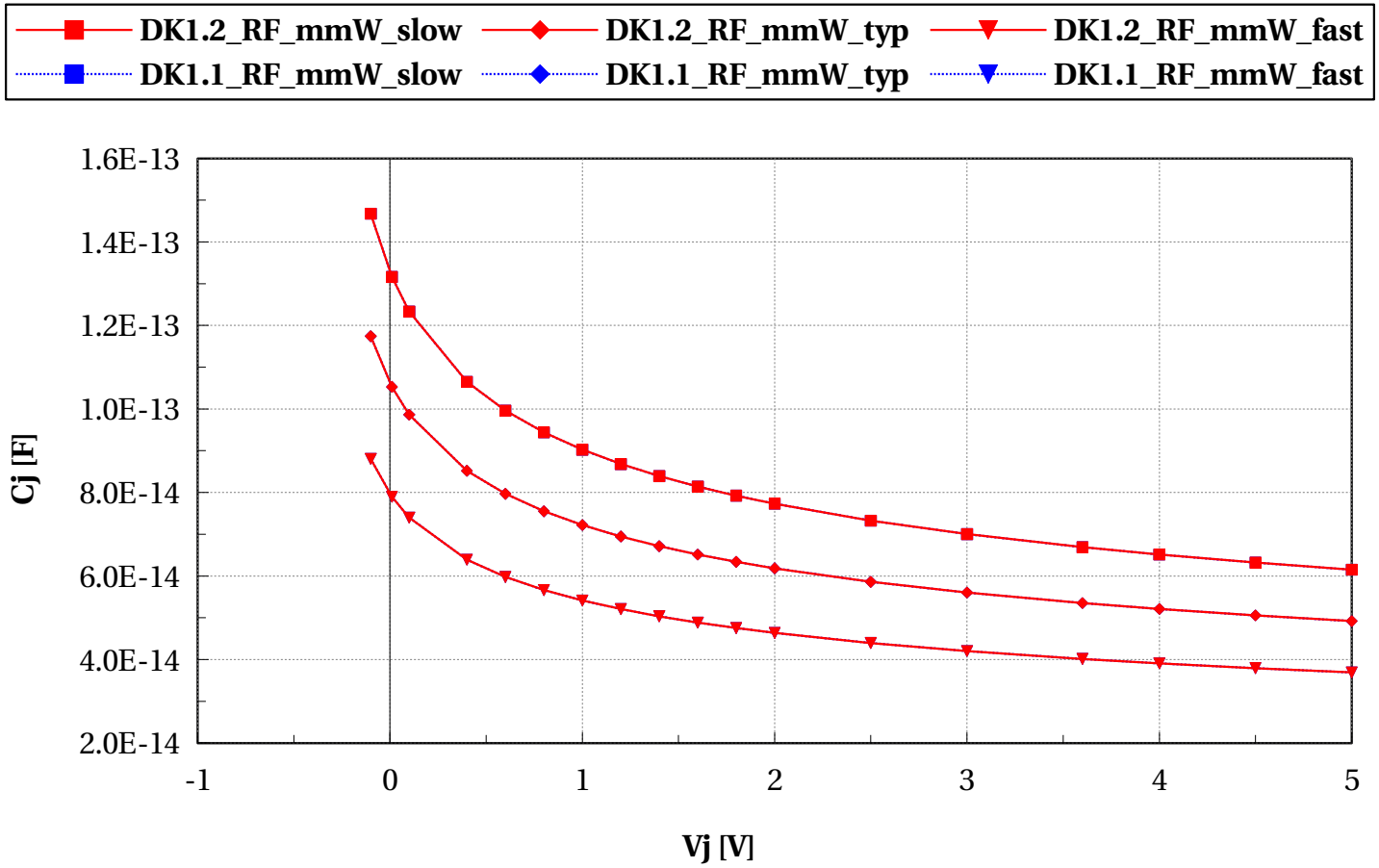

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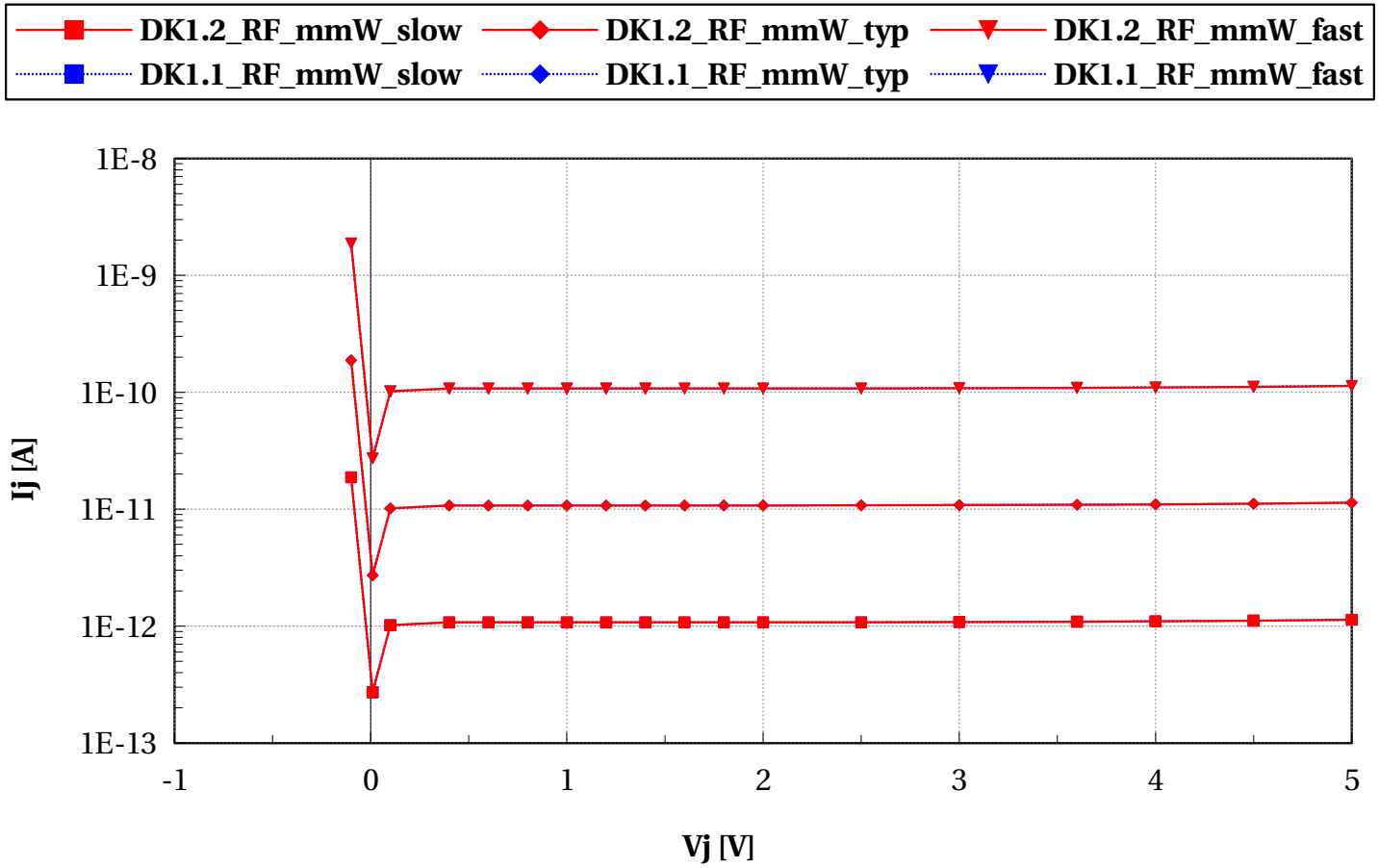

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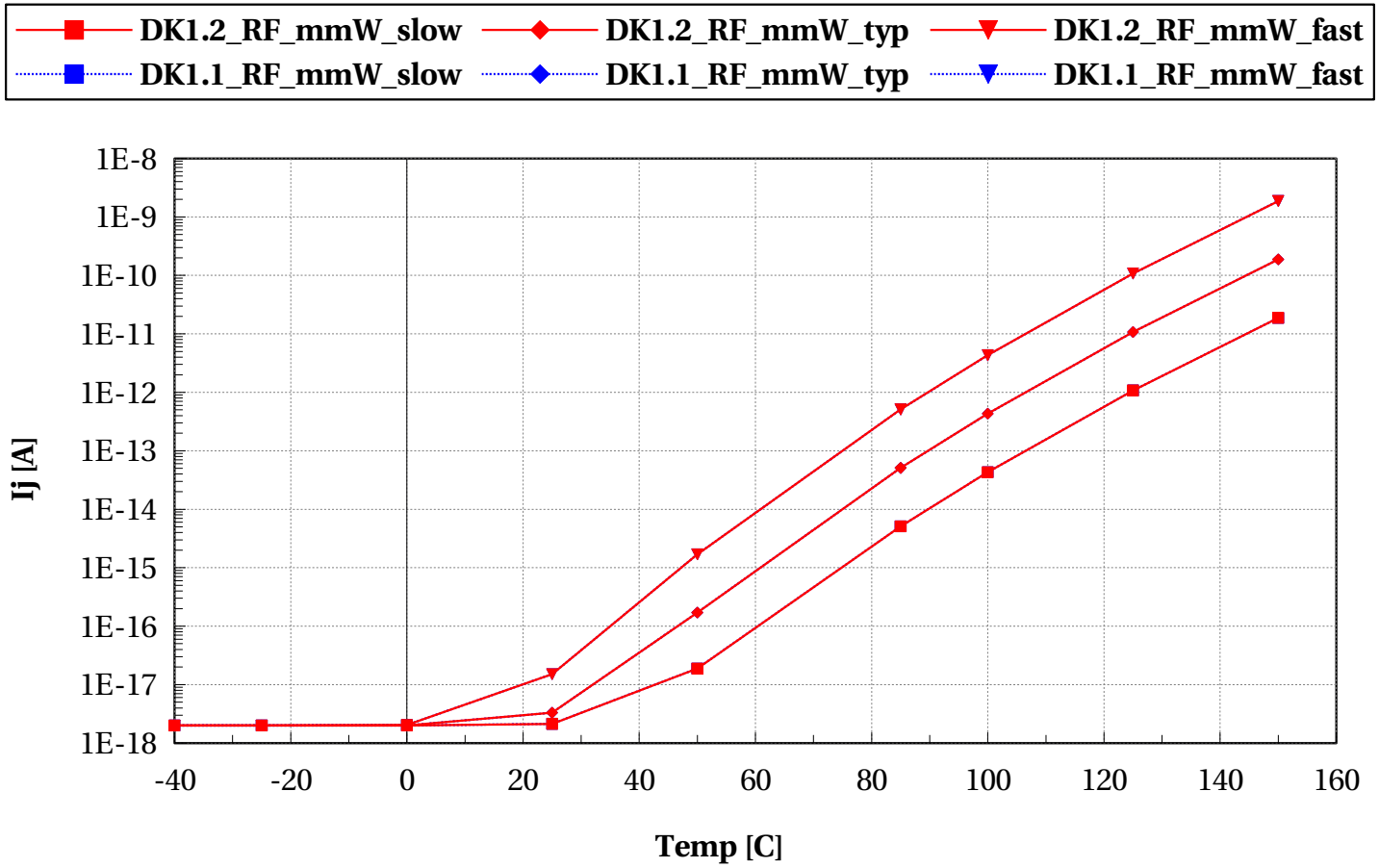

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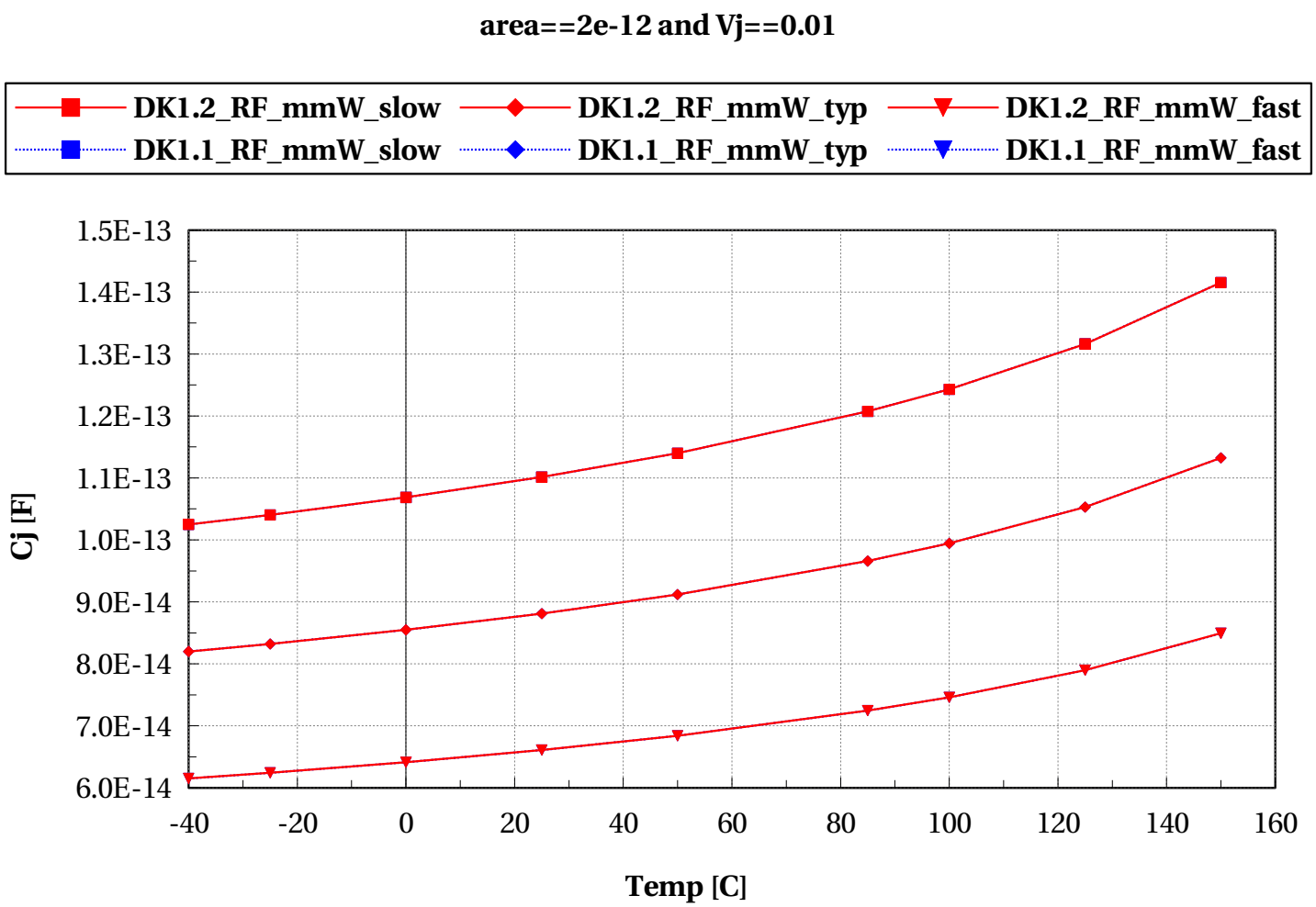

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Cj and Ij scaling versus Temp for Peri diode

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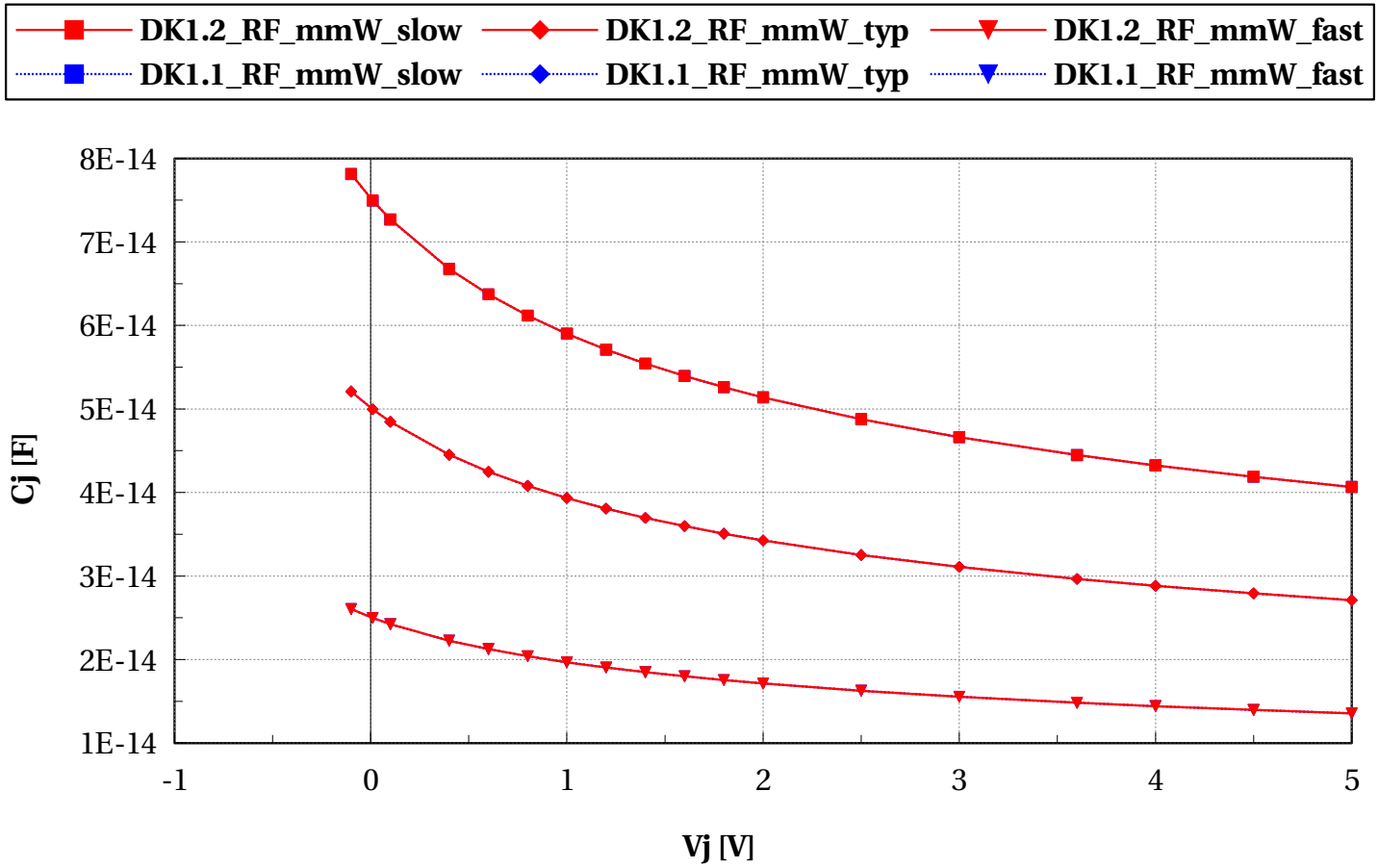

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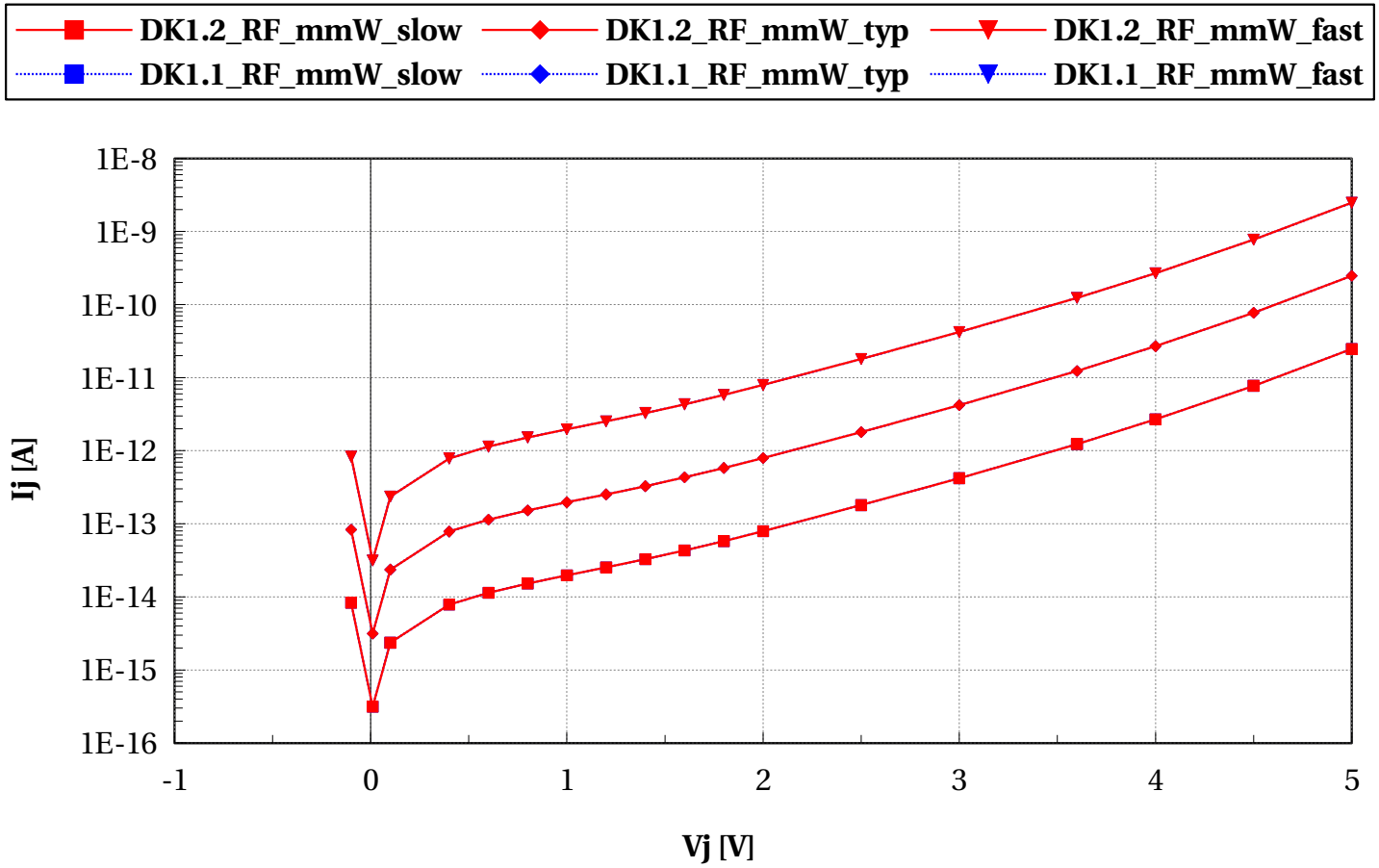

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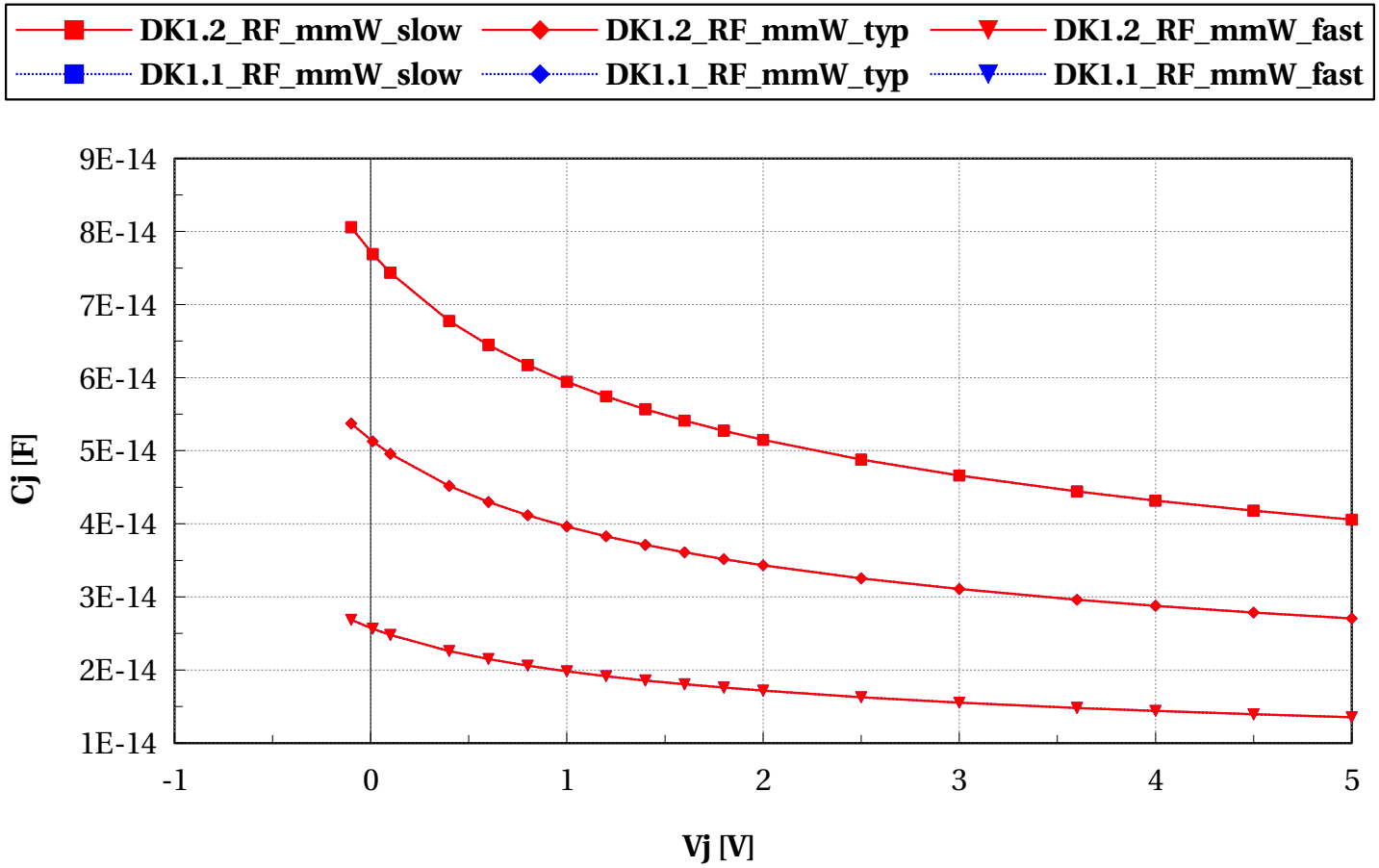

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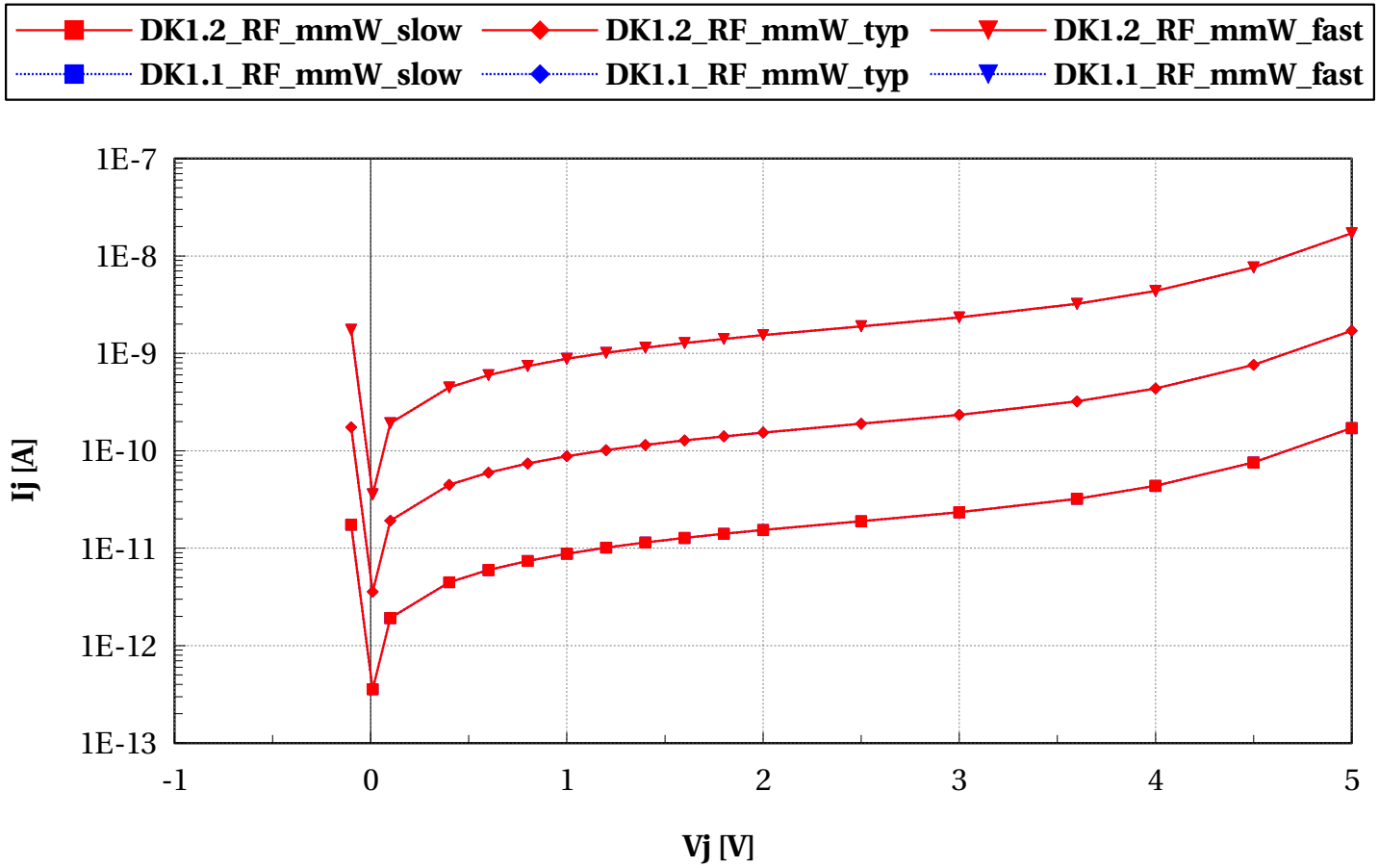

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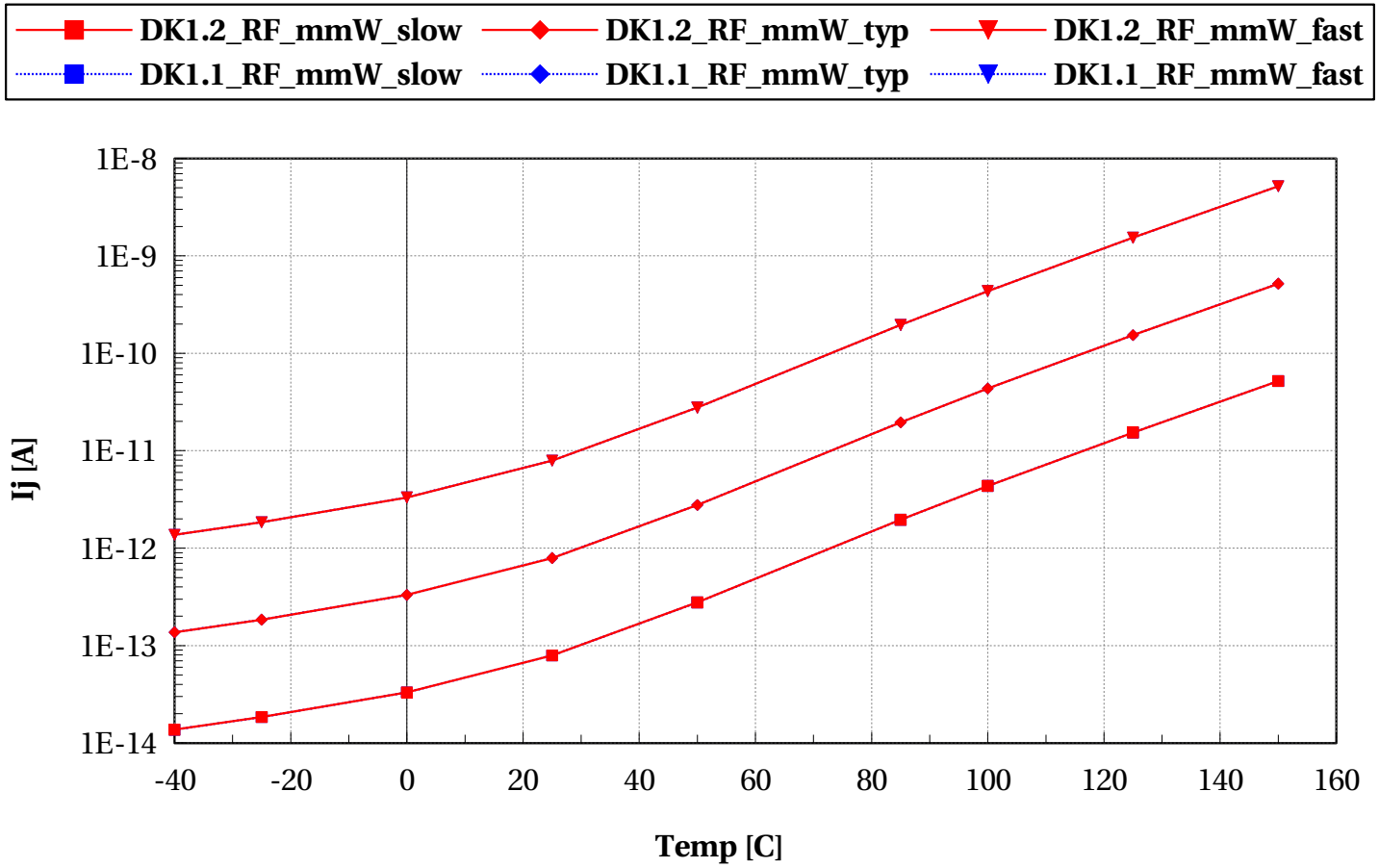

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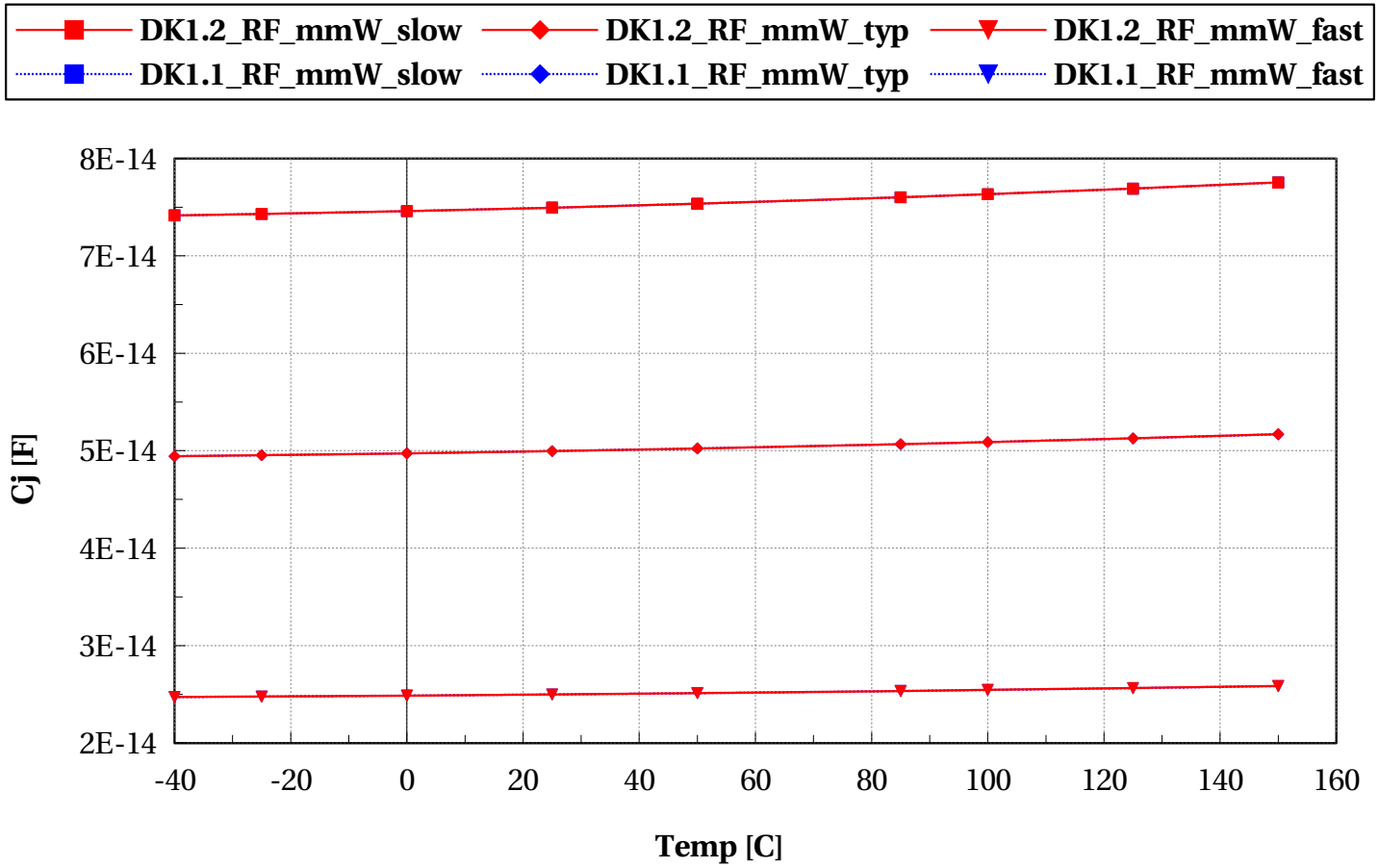

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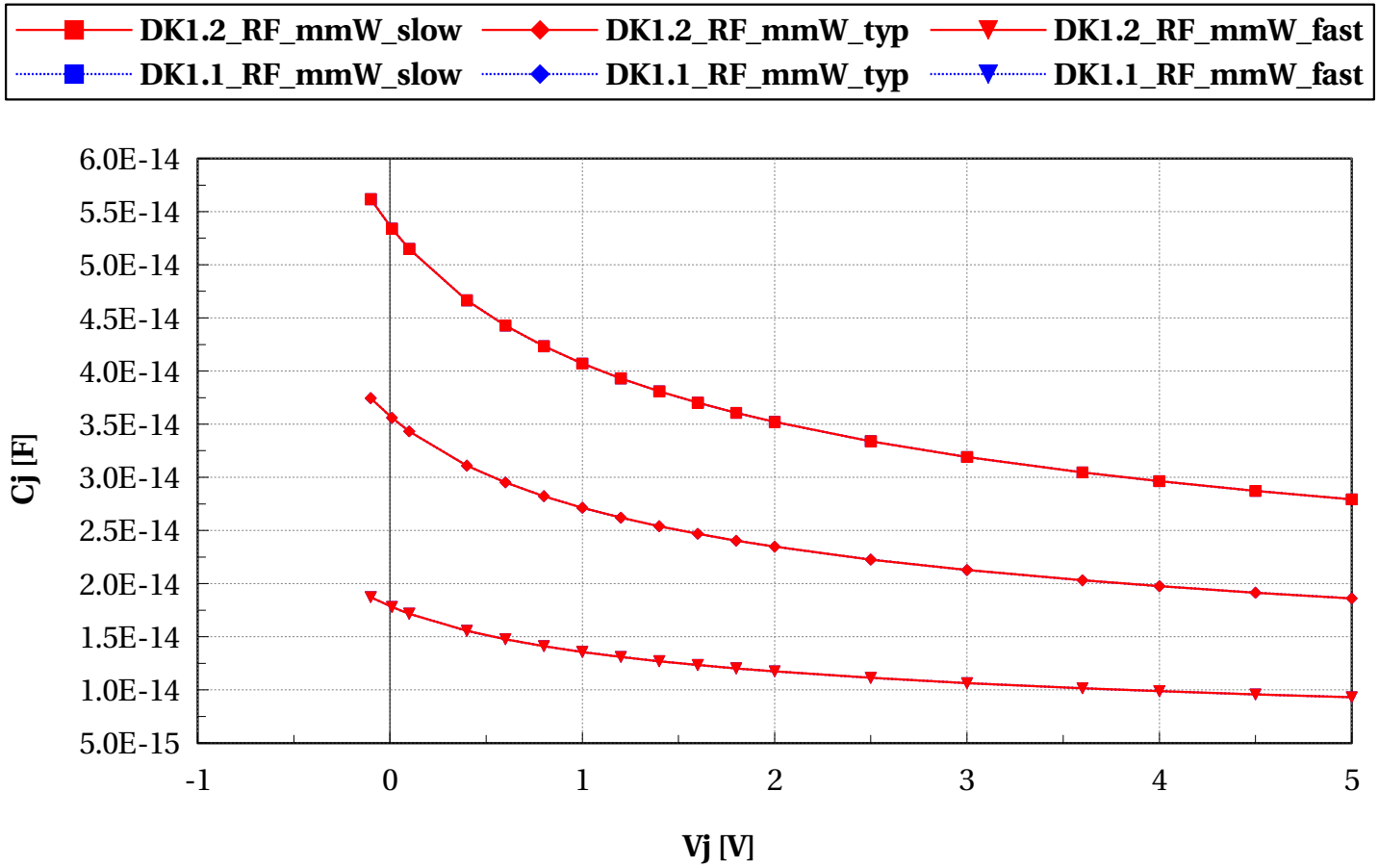
egdiodepnw, Cj [F] vs Vj [V]

area==2e-12 and Temp==25



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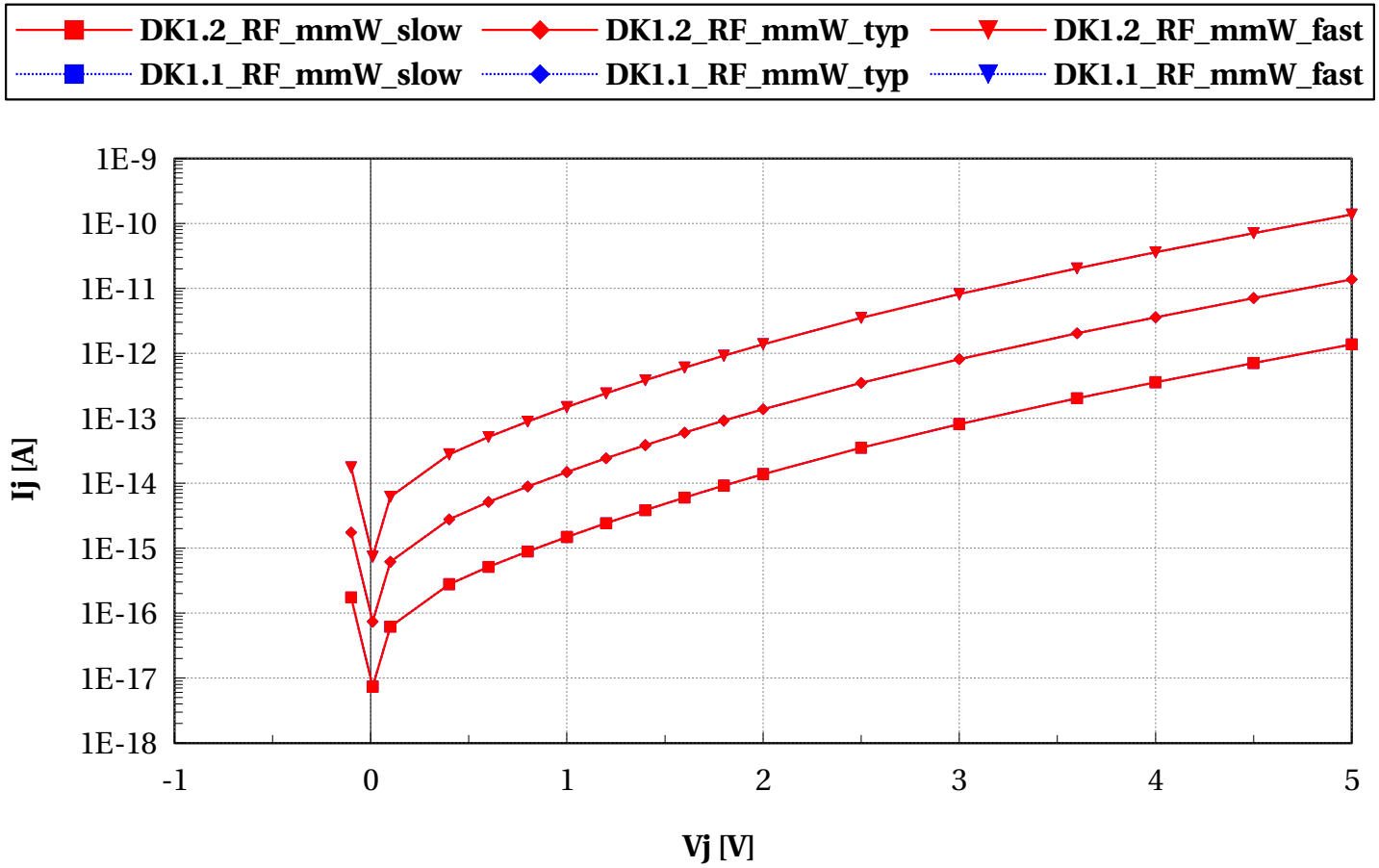
egdiodepnw, Ij [A] vs Vj [V]

area==2e-12 and Temp==25



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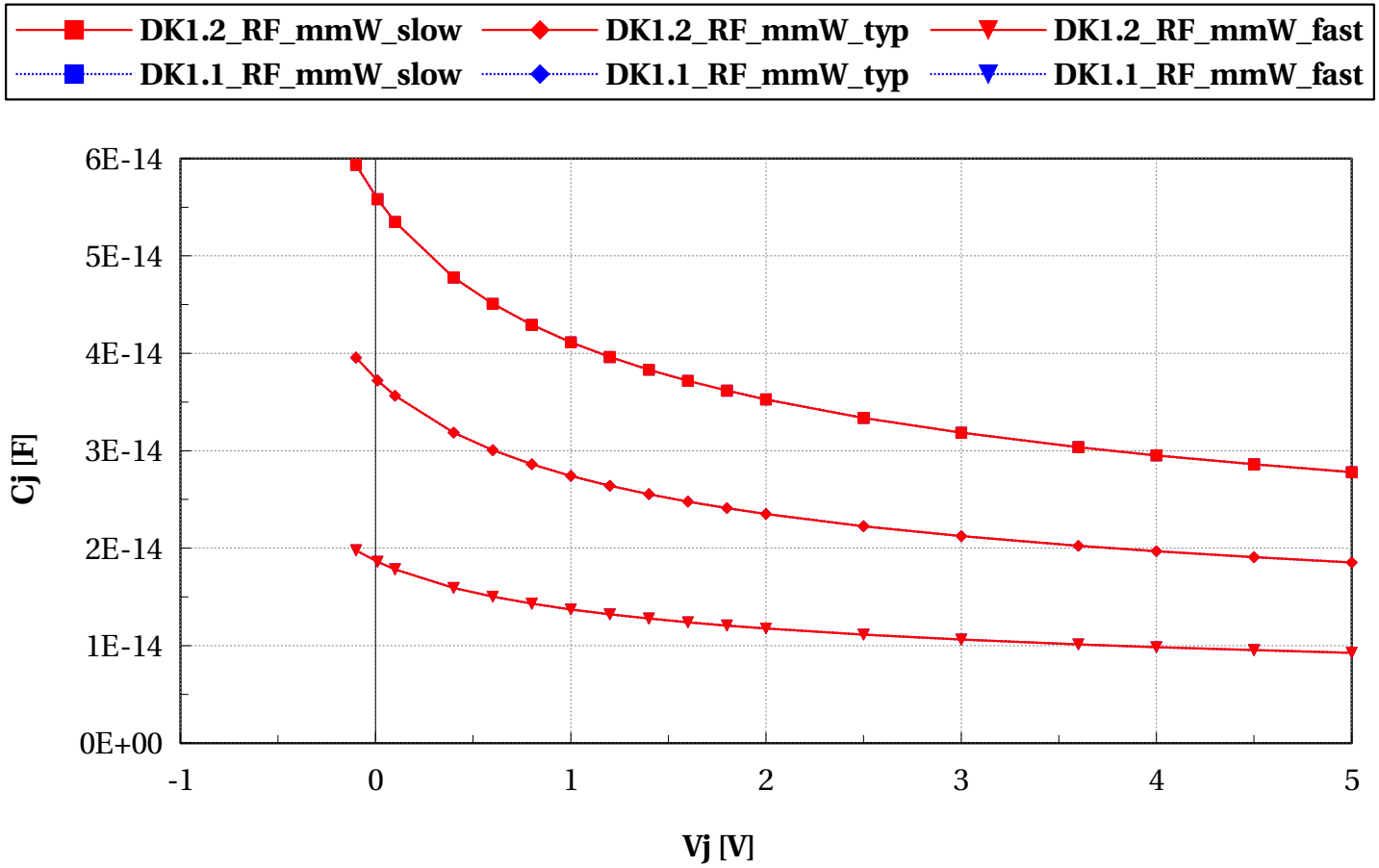
egdiodepnw, Cj [F] vs Vj [V]

area==2e-12 and Temp==125



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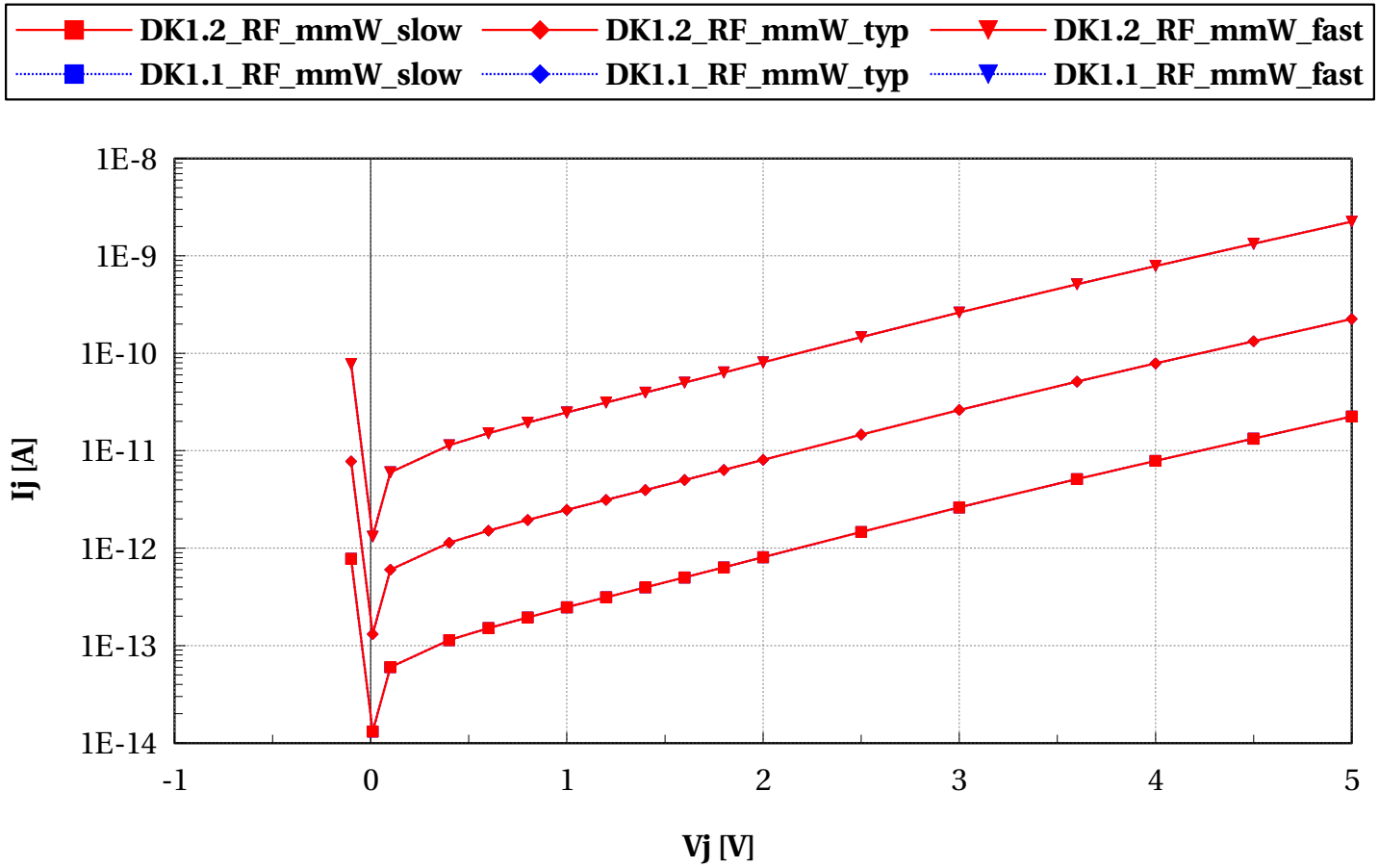
egdiodepnw, Ij [A] vs Vj [V]

area==2e-12 and Temp==125



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Cj and Ij scaling versus Vj for Peri diode, Temp=25C & Temp=125C

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Cj and Ij scaling versus Temp for Area diode

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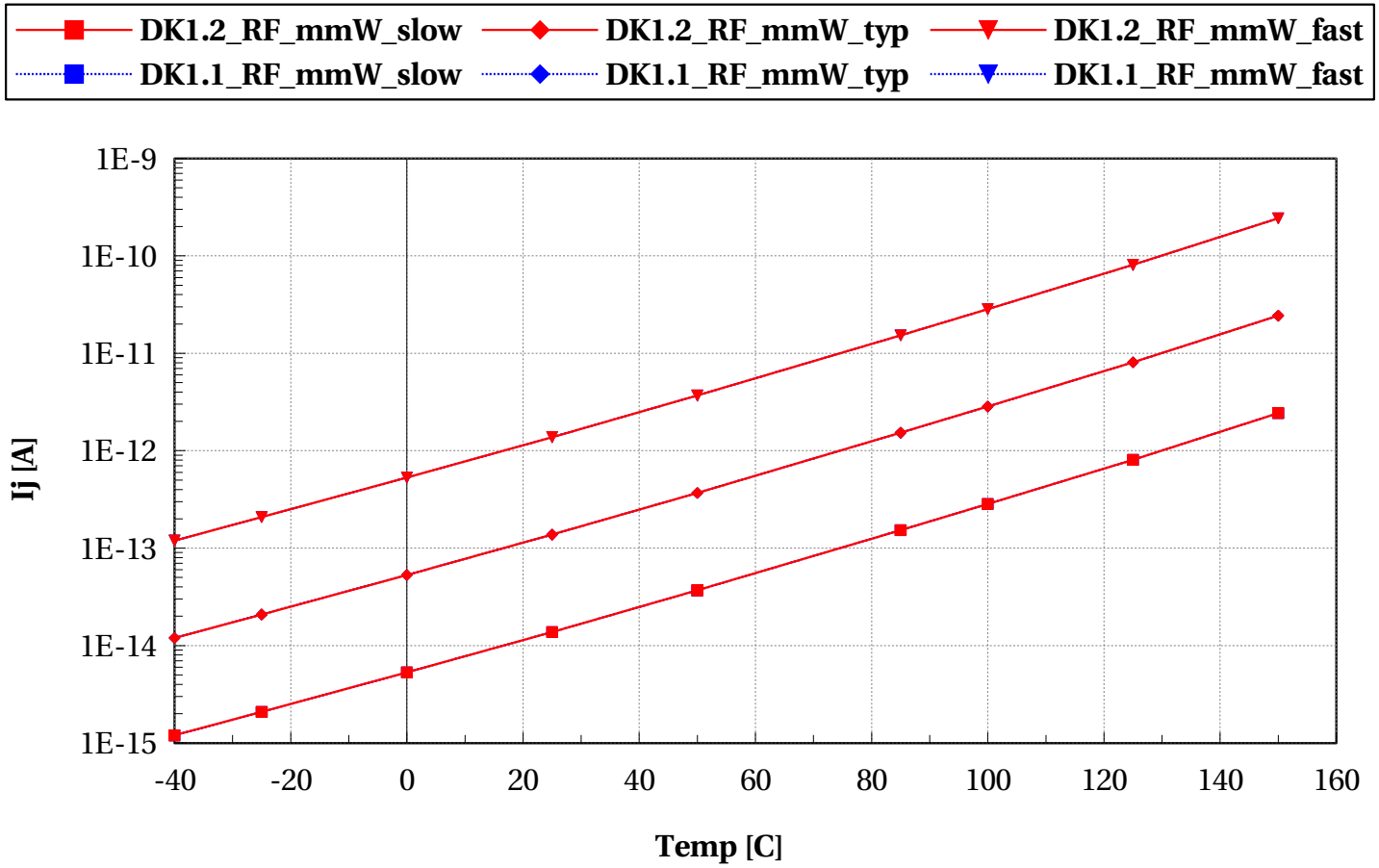
egdiodepnw, Ij [A] vs Temp [C]

area==2e-12 and Vj==2.0



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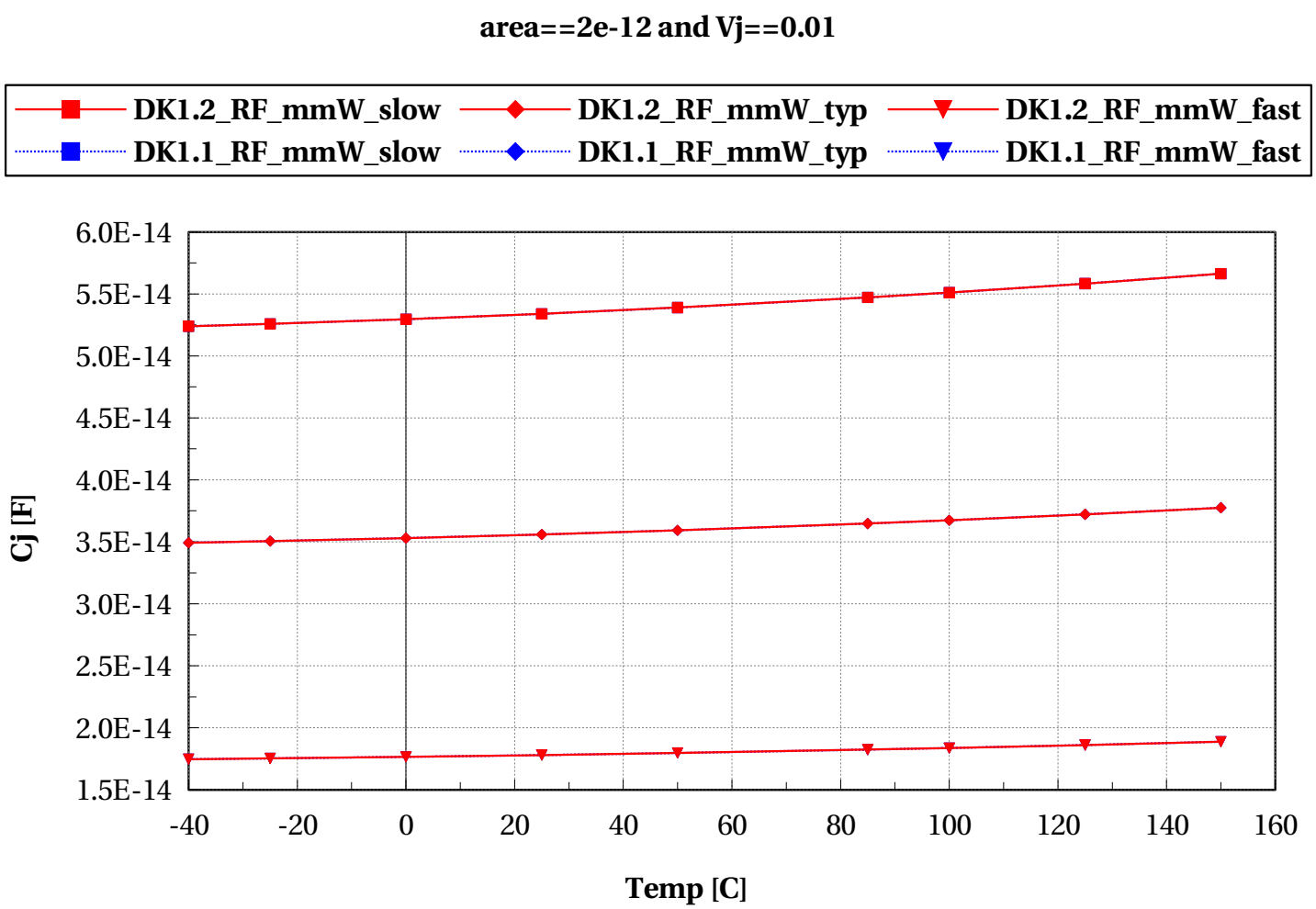
egdiodepnw, Cj [F] vs Temp [C]



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Cj and Ij scaling versus Temp for Peri diode

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Annex

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Conditions of simulations

The simulations were done with SBenchLSF Alpha using Eldo simulator 2018.3.

- Model diodenwx (DK1.2_RF_mmW)
  - ✔ Input Parameters
    - ✘ mc_runs = 1000
    - ✘ temp = 25 °C
    - ✘ mc_sens = 0
    - ✘ vj = 1.0 V
    - ✘ f_ext = 100K Hz
    - ✘ sbenchlsf_release = Alpha
    - ✘ ams_release = 2018.3
    - ✘ model_version = 1.1
    - ✘ mc_nsigma = 3
  - ✔ Sweep Parameters
    - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
    - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
  - ✔ Extra parameters
- Model diodenx (DK1.2_RF_mmW)

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- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodepnw (DK1.2_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3

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- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodepwtw (DK1.2_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.2.a
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodetwx (DK1.2_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V

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- ✘ f_ext = 100K Hz
- ✘ sbenchlsf_release = Alpha
- ✘ ams_release = 2018.3
- ✘ model_version = 1.2.a
- ✘ mc_nsigma = 3

✔ Sweep Parameters

- ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
- ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0

✔ Extra parameters

● Model egdiodenx (DK1.2_RF_mmW)

✔ Input Parameters

- ✘ mc_runs = 1000
- ✘ temp = 25 °C
- ✘ mc_sens = 0
- ✘ vj = 1.0 V
- ✘ f_ext = 100K Hz
- ✘ sbenchlsf_release = Alpha
- ✘ ams_release = 2018.3
- ✘ model_version = 1.1
- ✘ mc_nsigma = 3

✔ Sweep Parameters

- ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
- ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0

✔ Extra parameters

● Model egdiodepnw (DK1.2_RF_mmW)

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- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodenwx (DK1.1_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3

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- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodenx (DK1.1_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model diodepnw (DK1.1_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V

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- ✘ f_ext = 100K Hz
- ✘ sbenchlsf_release = Alpha
- ✘ ams_release = 2018.3
- ✘ model_version = 1.1
- ✘ mc_nsigma = 3

✔ Sweep Parameters

- ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
- ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0

✔ Extra parameters

● Model diodepwtw (DK1.1_RF_mmW)

✔ Input Parameters

- ✘ mc_runs = 1000
- ✘ temp = 25 °C
- ✘ mc_sens = 0
- ✘ vj = 1.0 V
- ✘ f_ext = 100K Hz
- ✘ sbenchlsf_release = Alpha
- ✘ ams_release = 2018.3
- ✘ model_version = 1.2.a
- ✘ mc_nsigma = 3

✔ Sweep Parameters

- ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
- ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0

✔ Extra parameters

● Model diodetwx (DK1.1_RF_mmW)

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- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.2.a
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model egdiodenx (DK1.1_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3

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- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

● Model egdiodepnw (DK1.1_RF_mmW)

- ✔ Input Parameters
  - ✘ mc_runs = 1000
  - ✘ temp = 25 °C
  - ✘ mc_sens = 0
  - ✘ vj = 1.0 V
  - ✘ f_ext = 100K Hz
  - ✘ sbenchlsf_release = Alpha
  - ✘ ams_release = 2018.3
  - ✘ model_version = 1.1
  - ✘ mc_nsigma = 3
- ✔ Sweep Parameters
  - ✘ vj = 5.0, 4.5, 4.0, 3.6, 3.0, 2.5, 2.0, 1.8, 1.6, 1.4, 1.2, 1.0, 0.8, 0.6, 0.4, 0.1, 0.01, -0.1
  - ✘ temp = -40.0, -25.0, 0.0, 25.0, 50.0, 85.0, 100.0, 125.0, 150.0
- ✔ Extra parameters

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