Radiation Hard PowerMOS Portfolio Qualified and in Production

**250V Technology** | **ESCC Reference**
---|---
BUY25CS12J-01 | 5205/026
BUY25CS54A-01 | 5205/027
BUY25CS12K-01 | 5205/030/01
BUY25CS45B-01 | 5205/030/03

**150V Technology** | **ESCC Reference**
---|---
BUY15CS23J-01 | 5205/031/01
BUY15CS57A-01 | 5205/031/02
BUY15CS23K-01 | 5205/031/03
BUY15CS45B-01 | 5205/031/04

**Radiation-hardened:**
- Total Ionization Dose (TID) 100krad
- Single Event Effect (SEE):
  - LET 85, Range: 118μm VGS = -10V, VDS = 250V;
  - LET 55, Range: 90μm VGS = -15V, VDS = 250V;

**Radiation-hardened:**
- Total Ionization Dose TID 100krad
- Single Event Effect (SEE):
  - LET 73, Range: 253μm VGS = -10V, VDS = 150V;
  - LET 55, Range: 95μm VGS = -15V, VDS = 150V;
Radiation Hard PowerMOS Products 60V N-Channel (under qualification)

**Radiation-hardened:**
- Total Ionization Dose TID 100krad
- Single Event Effect (SEE):
  - LET 62, Range: 73μm (Xe) $V_{GS} = -15V$, $V_{DS} = 60V$;
  - LET 95 , Range: 86μm (Pb) $V_{GS} = -5V$, $V_{DS} = 60V$;
- Samples available!
- ESCC qualification planned to finish in Q3 2019!
- Datasheet and simulation Models on request.

<table>
<thead>
<tr>
<th>Type</th>
<th>ESCC Reference</th>
<th>RDSon max; 25°C</th>
<th>IDC</th>
<th>Umax</th>
<th>Package</th>
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Radiation Hard PowerMOS
Products 650V N-Channel (Upcoming)

Radiation-hardened:

› Total Ionization Dose TID 100krad
› Single Event Effect (SEE):
  LET 62, Range: 73μm VGS = -15V, VDS = 650V;
  LET 90, Range: 122μm (Pb) VGS = -10V, VDS = 650V

› Limited Samples available!
› Evaluation build to be started soon!
› Datasheet and simulation Models on request.

<table>
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<tr>
<th>Type</th>
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Radiation Hard PowerMOS
The Family is Complete

From the very first start of the development of RadHard PowerMOS at Infineon more than 10 years ago it was a long way to reach this milestone of a complete portfolio!

During this time we got a lot of support from, ESA, DLR but as well from users and customers!

Therefore we would like to say thank you!

But a milestone is just way-mark and not the end of the journey!
Part of your life. Part of tomorrow.