

An application note for leakage current against temperature and applied voltage

Introduction

This application note provides data on the typical leakage current against temperature as a function of $T_{j(max)}$ and typical leakage current against applied voltage as a function of rated voltage.

Leakage current against temperature

The leakage current, I_{DRM} and I_{RRM} against temperature will vary generally as shown in figure 1. Above the rated maximum junction temperature, $T_{j(max)}$ the leakage current will approximately double for every 10°C rise above $T_{j(max)}$.

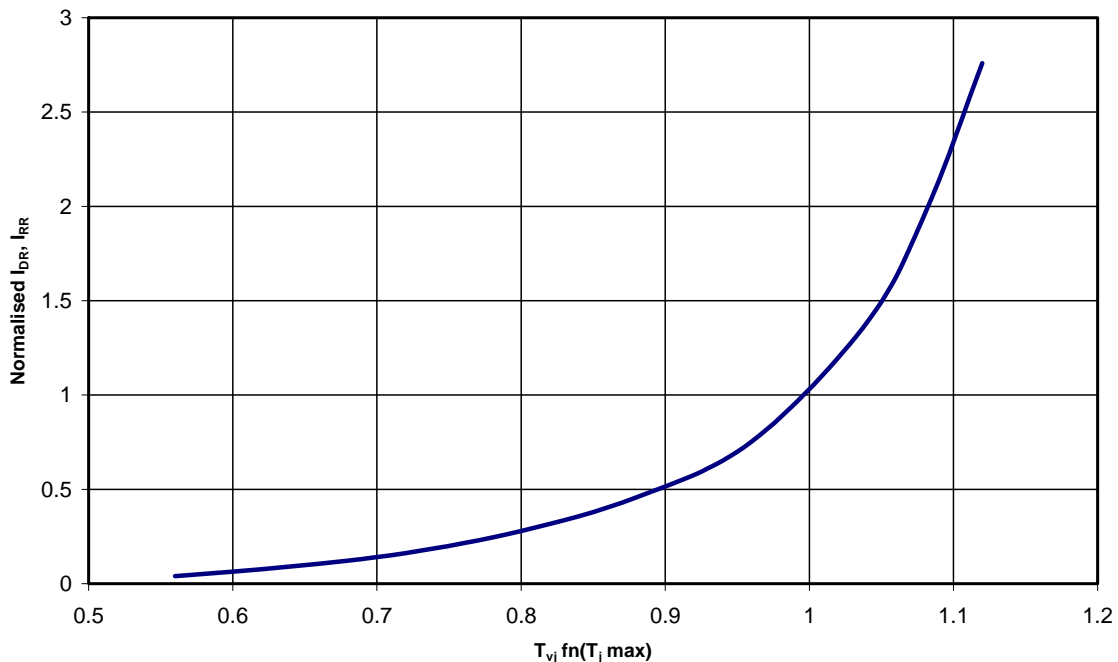


Figure 1: Normalised leakage current against temperature as a function of $T_{j(max)}$

Leakage current against applied voltage

The leakage current, I_{DRM} and I_{RRM} against applied voltage will vary generally as shown in figure 2. It can be seen in figure 2 that the leakage current typically halves for a 20% drop in the applied voltage.

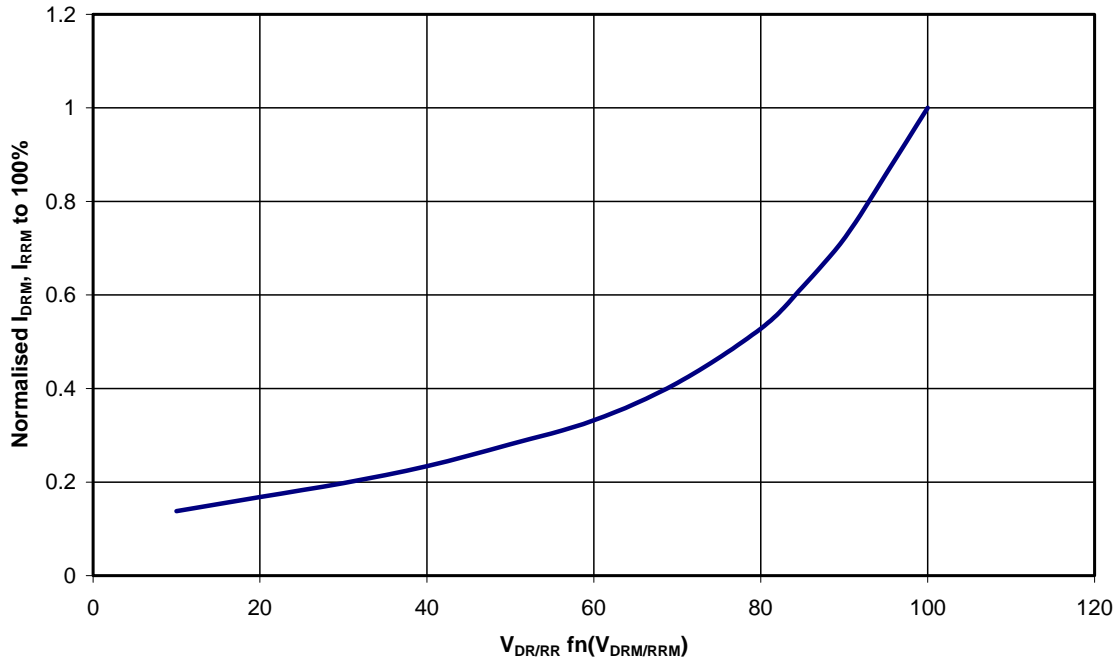


Figure 2: Normalised leakage current against voltage as a function of rated voltage

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IXYS Semiconductor GmbH
 Edisonstraße 15
 D-68623 Lampertheim
 Tel: +49 6206 503-0
 Fax: +49 6206 503-627
 E-mail: marcom@ixys.de

WESTCODE
 An IXYS Company

Westcode Semiconductors Ltd
 Langley Park Way, Langley Park,
 Chippenham, Wiltshire, SN15 1GE.
 Tel: +44 (0)1249 444524
 Fax: +44 (0)1249 659448
 E-mail: WSL.sales@westcode.com

IXYS Corporation
 1590 Buckeye Drive
 Milpitas CA 95035-7418 USA
 Tel: +1 (408) 457 9000
 Fax: +1 (408) 496 0670
 E-mail: sales@ixys.net

www.westcode.com

www.ixys.com

IXYS Long Beach
 2500 Mira Mar Avenue
 Long Beach CA 90815 USA
 Tel: +1 (562) 296 6584
 Fax: +1 (562) 296 6585
 E-mail: WSI.sales@westcode.com

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