



TECHNICAL REPORT

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Derating of Electronic Components

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(Formulated under the cognizance of the TechAmerica G-12 Solid State Devices Committee.)

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FOREWORD

Derating is a method of reducing stress and/or making quantitative allowances for a component's functional degradation. Consequently, derating is a means of reducing failures, extending component life, and increasing reliability. In addition, derating helps protect components from unforeseen application anomalies and overstresses.

Component derating may sometimes be difficult to achieve in some instances but is critical for systems being used in severe environments. When uncontrolled components are employed they often need protection from environmental conditions and/or need derating more than controlled components.

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