

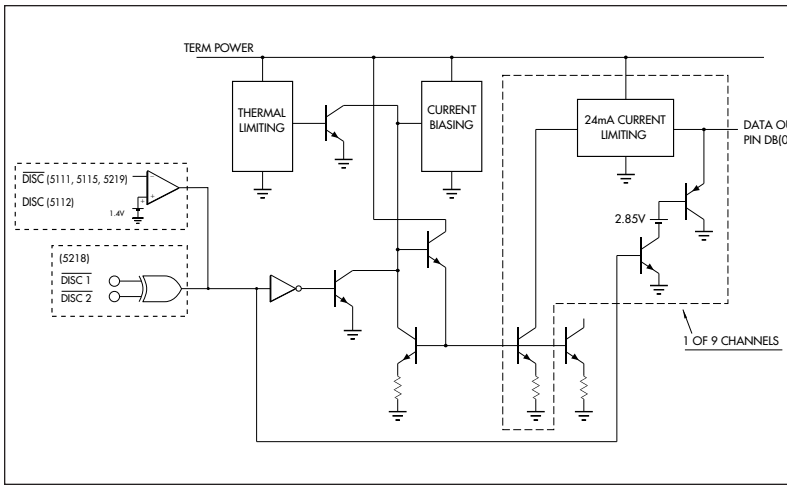
UltraSCSI Terminator Family Design for UltraSCSI Performance!



- ◆ FAST-20 SCSI Operation
- ◆ New Adaptive, Non-Linear Architecture
- ◆ 35MHz Bandwidth
 - High signal integrity
 - Lower error rate
- ◆ Eliminate Costly Capacitors
- ◆ Dallas, Linfinity and Unitrode Pin-compatible

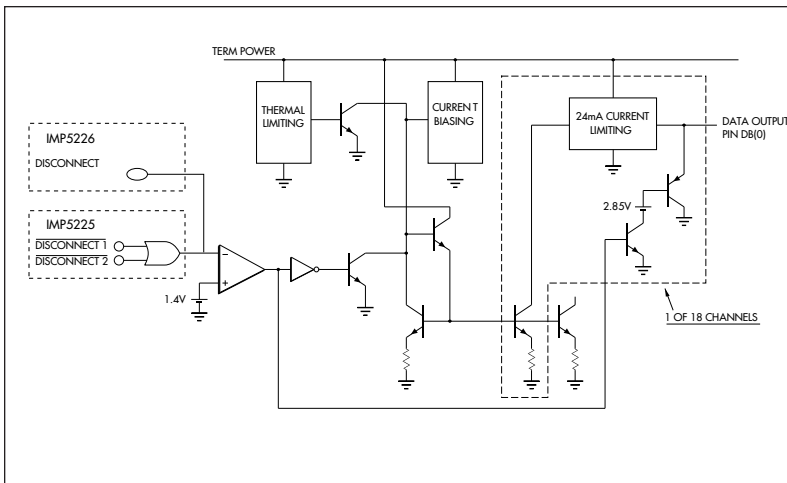
Non-Linear Terminator Family

9-Channel



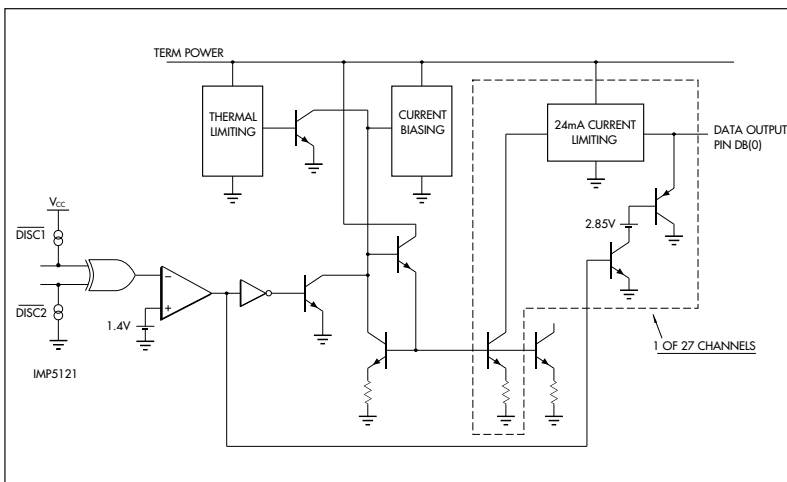
- ◆ Upgrade DS21S07A designs (IMP5115)
- ◆ Sleep-mode current under 275µA (IMP5111)
- ◆ 3.3/3.5V operation
- ◆ Less than 3pF output capacitance
- ◆ Hot-swap compatible
- ◆ 16-SOIC/16-SOWB/20-TSSOP packages

18-Channel



- ◆ Sleep-mode current under 200µA (IMP5226)
- ◆ Sleep-mode current under 275µA (IMP5225)
- ◆ 3.5V operation
- ◆ Less than 4pF output capacitance
- ◆ Hot-swap compatible
- ◆ 28-SSOP/28-SOWB packages

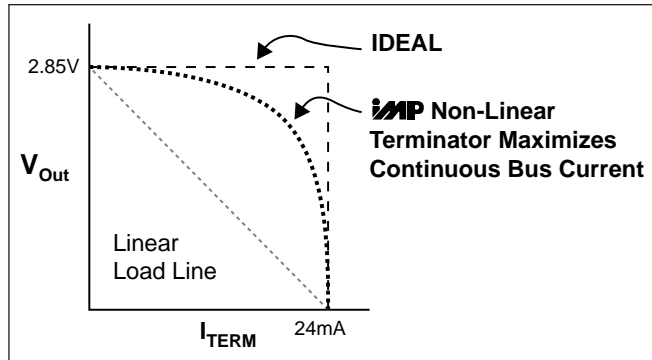
27-Channel



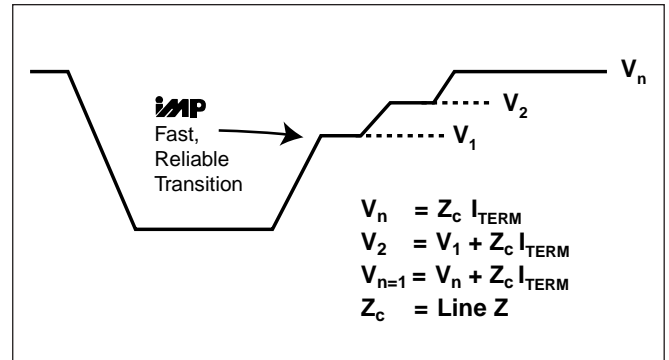
- ◆ Split dual disconnect and logic for 16/18-bit bus mixing
- ◆ Plug-and-Play
- ◆ Less than 3pF output capacitance
- ◆ Superior pin-for-pin replacement for UCC5621
- ◆ Hot-swap compatible
- ◆ 44-SSOP/56-TSSOP packages

Non-Linear Architecture Advantages

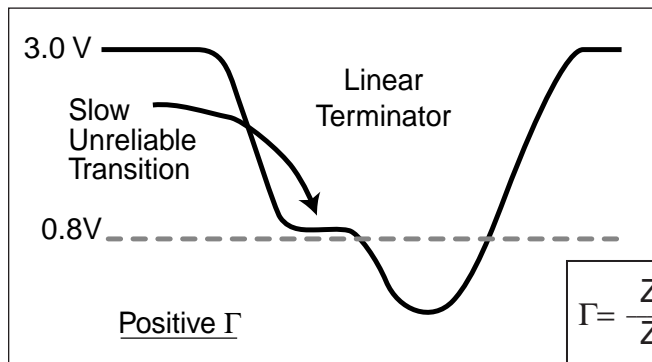
Higher Speed and Performance



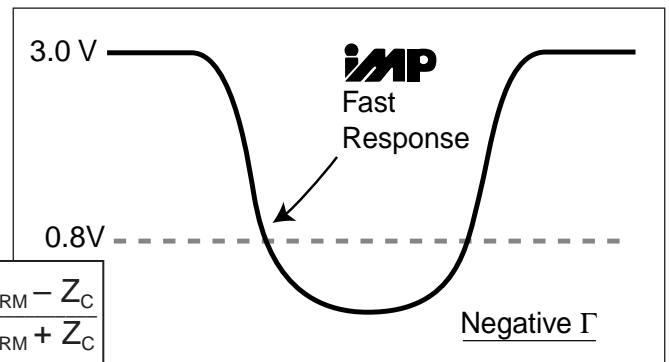
Maximum Continuous Bus Current



High Current Gives First-Step De-Assertion Advantage



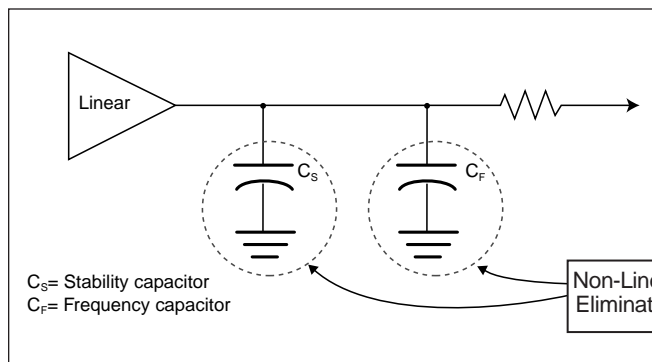
Linear Terminator Poorly Matches Loaded Cable



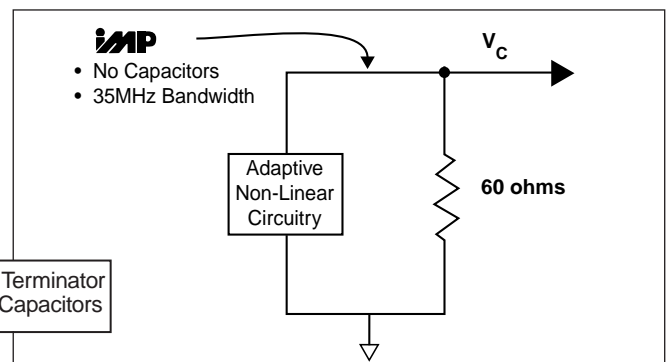
Assertion Advantage: Non-Linear Terminator Matches "Real World" System Impedance

$$\Gamma = \frac{Z_{TERM} - Z_C}{Z_{TERM} + Z_C}$$

Fewer Components



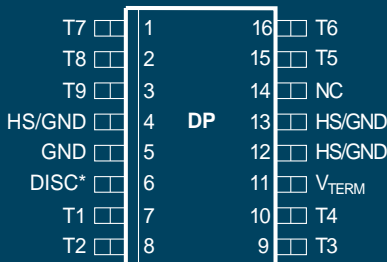
Linear Terminators Require Extra Components



High-Bandwidth Terminator Eliminates Capacitors and Lowers Cost

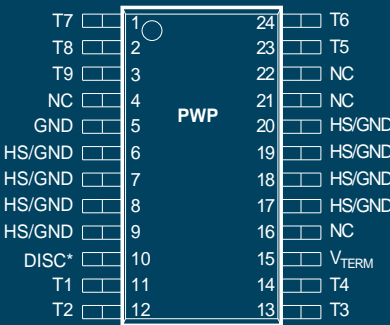
Package Options

5111, 5112
SOIC



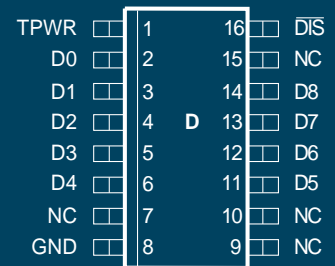
*DISC for the IMP5112
& DISC for the IMP5111

5111, 5112
TSSOP

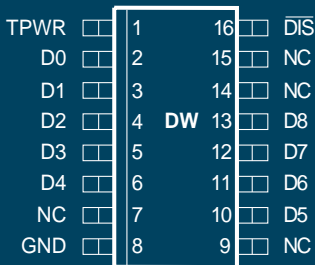


*DISC for the IMP5112
& DISC for the IMP5111

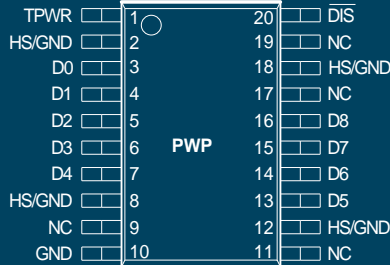
5115
SOIC



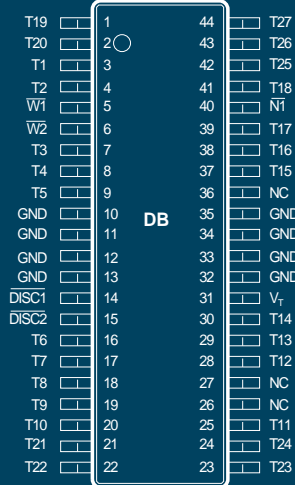
5115
SOWB



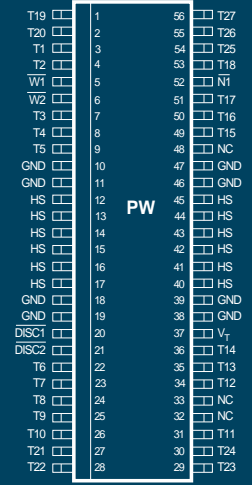
5115
TSSOP



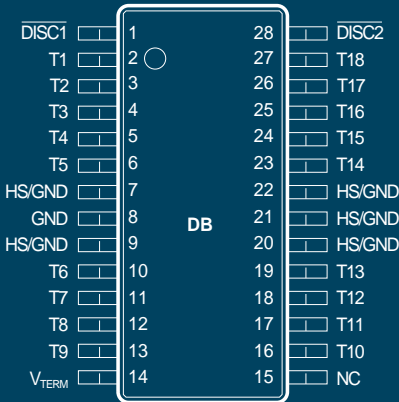
5121
SSOP



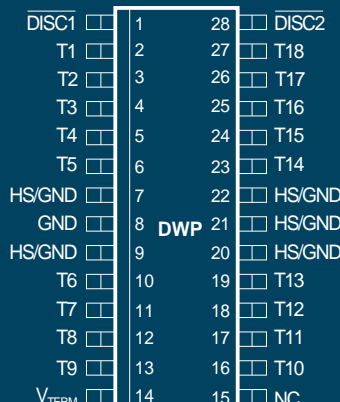
5121
TSSOP



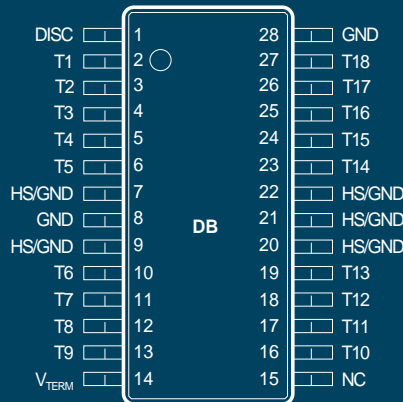
5225
SSOP



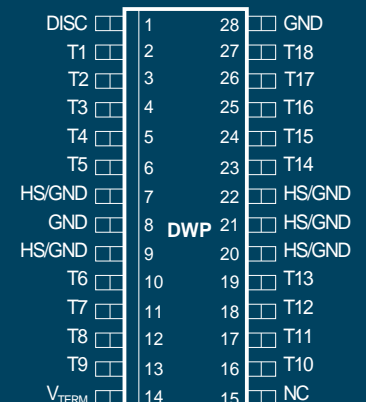
5225
SOWB



5226
SSOP



5226
SOWB



ISO 9001 Registered

Daily Silver IMP

Revision : A

Issue Date: 08/08/05

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