

Logic Buffered Single - Dual - Triple Independent Delay Modules

Part Number Description **XXXXX - XXX X**

74ACT -- ACMDL
ACM2D & ACM3D

74F -- FAMDL
FAM2D & FAM3D

74LVC -- LVMDL
LVM2D & LVM3D

Delay Per Line (ns)

Lead Style:
Blank = Auto-Insertable DIP
G = "Gull Wing" Surface Mount
J = "J" Bend Surface Mount

GENERAL: For Operating Specifications and Test Conditions refer to corresponding 5-Tap Series FAMDM, ACMDM and LVMDM except Minimum Pulse width and Supply current ratings as below. Delays specified for the Leading Edge.

Operating Temperature Range
 FAST/TTL 0°C to +70°C
 74ACT -40°C to +85°C
 74LVC -40°C to +85°C

Temp. Coefficient of Delay:
 Single 500ppm/°C typical
 Dual/Triple 800ppm/°C typical

Minimum Input Pulse Width:
 Single 40% of total delay
 Dual/Triple 100% of total delay

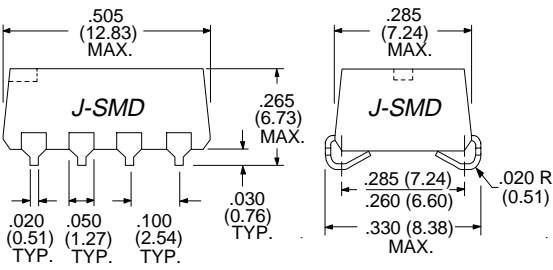
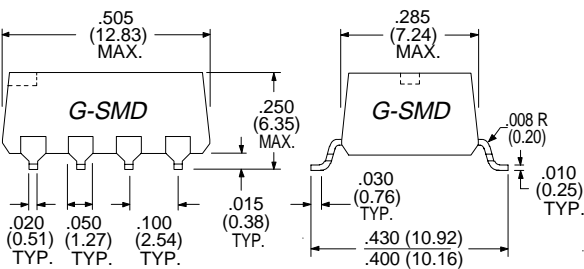
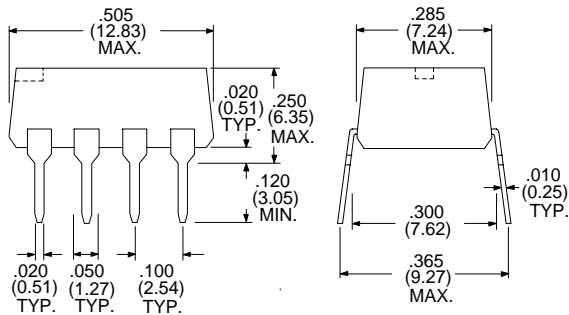
Supply Current, I_{CC} :
 FAST/TTL FAMDL 25 mA typ., 48 mA max.
 FAM2D 32 mA typ., 65 mA max.
 FAM3D 45 mA typ., 95 mA max.

74ACT ACMDL 14 mA typ., 28 mA max.
 ACM2D 23 mA typ., 52 mA max.
 ACM3D 34 mA typ., 75 mA max.

74LVC LVMDL 10 mA typ., 30 mA max.
 LVM2D 15 mA typ., 44 mA max.
 LVM3D 21 mA typ., 64 mA max.

Examples:
 FAMDL-4 = 4ns Single 74F, DIP
 ACM2D-25G = 25ns Dual ACT, G-SMD
 LVM3D-30G = 30ns Triple LVC, G-SMD

Dimensions in Inches (mm)



• FAST / TTL •

Electrical Specifications at 25°C

| Delay (ns) | FAST Buffered | | |
|------------|------------------|----------------|------------------|
| | Single 8-Pin P/N | Dual 8-Pin P/N | Triple 8-Pin P/N |
| 4 ± 1.00 | FAMDL-4 | FAM2D-4 | FAM3D-4 |
| 5 ± 1.00 | FAMDL-5 | FAM2D-5 | FAM3D-5 |
| 6 ± 1.00 | FAMDL-6 | FAM2D-6 | FAM3D-6 |
| 7 ± 1.00 | FAMDL-7 | FAM2D-7 | FAM3D-7 |
| 8 ± 1.00 | FAMDL-8 | FAM2D-8 | FAM3D-8 |
| 9 ± 1.00 | FAMDL-9 | FAM2D-9 | FAM3D-9 |
| 10 ± 1.50 | FAMDL-10 | FAM2D-10 | FAM3D-10 |
| 12 ± 1.50 | FAMDL-12 | FAM2D-12 | FAM3D-12 |
| 15 ± 1.50 | FAMDL-15 | FAM2D-15 | FAM3D-15 |
| 16 ± 1.50 | FAMDL-16 | FAM2D-16 | FAM3D-16 |
| 20 ± 2.00 | FAMDL-20 | FAM2D-20 | FAM3D-20 |
| 25 ± 2.00 | FAMDL-25 | FAM2D-25 | FAM3D-25 |
| 30 ± 2.00 | FAMDL-30 | FAM2D-30 | FAM3D-30 |
| 50 ± 2.50 | FAMDL-50 | --- | --- |
| 75 ± 3.75 | FAMDL-75 | --- | --- |
| 100 ± 5.0 | FAMDL-100 | --- | --- |

• Advanced CMOS •

Electrical Specifications at 25°C

| Delay (ns) | 74ACT Adv. CMOS | | |
|------------|------------------|----------------|------------------|
| | Single 8-Pin P/N | Dual 8-Pin P/N | Triple 8-Pin P/N |
| 6 ± 1.00 | ACMDL-6 | ACM2D-6 | ACM3D-6 |
| 7 ± 1.00 | ACMDL-7 | ACM2D-7 | ACM3D-7 |
| 8 ± 1.00 | ACMDL-8 | ACM2D-8 | ACM3D-8 |
| 9 ± 1.00 | ACMDL-9 | ACM2D-9 | ACM3D-9 |
| 10 ± 1.50 | ACMDL-10 | ACM2D-10 | ACM3D-10 |
| 12 ± 1.50 | ACMDL-12 | ACM2D-12 | ACM3D-12 |
| 15 ± 1.50 | ACMDL-15 | ACM2D-15 | ACM3D-15 |
| 16 ± 1.50 | ACMDL-16 | ACM2D-16 | ACM3D-16 |
| 20 ± 2.00 | ACMDL-20 | ACM2D-20 | ACM3D-20 |
| 25 ± 2.00 | ACMDL-25 | ACM2D-25 | ACM3D-25 |
| 30 ± 2.00 | ACMDL-30 | ACM2D-30 | ACM3D-30 |
| 50 ± 2.50 | ACMDL-50 | --- | --- |
| 75 ± 3.75 | ACMDL-75 | --- | --- |
| 100 ± 5.0 | ACMDL-100 | --- | --- |

• Low Voltage CMOS •

Electrical Specifications at 25°C

| Delay (ns) | Low Voltage CMOS Buffered | | |
|------------|---------------------------|----------------|------------------|
| | Single 8-Pin P/N | Dual 8-Pin P/N | Triple 8-Pin P/N |
| 4 ± 1.00 | LVMDL-4 | LVM2D-4 | LVM3D-4 |
| 5 ± 1.00 | LVMDL-5 | LVM2D-5 | LVM3D-5 |
| 6 ± 1.00 | LVMDL-6 | LVM2D-6 | LVM3D-6 |
| 7 ± 1.00 | LVMDL-7 | LVM2D-7 | LVM3D-7 |
| 8 ± 1.00 | LVMDL-8 | LVM2D-8 | LVM3D-8 |
| 9 ± 1.00 | LVMDL-9 | LVM2D-9 | LVM3D-9 |
| 10 ± 1.50 | LVMDL-10 | LVM2D-10 | LVM3D-10 |
| 12 ± 1.50 | LVMDL-12 | LVM2D-12 | LVM3D-12 |
| 15 ± 1.50 | LVMDL-15 | LVM2D-15 | LVM3D-15 |
| 16 ± 1.50 | LVMDL-16 | LVM2D-16 | LVM3D-16 |
| 20 ± 2.00 | LVMDL-20 | LVM2D-20 | LVM3D-20 |
| 25 ± 2.00 | LVMDL-25 | LVM2D-25 | LVM3D-25 |
| 30 ± 2.00 | LVMDL-30 | LVM2D-30 | LVM3D-30 |
| 50 ± 2.50 | LVMDL-50 | --- | --- |
| 75 ± 3.75 | LVMDL-75 | --- | --- |
| 100 ± 5.0 | LVMDL-100 | --- | --- |

Specifications subject to change without notice.

For other values & Custom Designs, contact factory.

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