

# Ordering Part Number Designators

<p><b>Am29LV</b></p> <p><b>640</b></p> <p><b>D</b></p> <p><b>U</b></p> <p><b>90R</b></p> <p><b>WH</b></p> <p><b>I</b></p>	<p><b>OPTIONAL PROCESSING</b></p> <p>Blank = Standard Processing</p> <p><b>TEMPERATURE RANGE</b></p> <p>C = Commercial (0°C to +70°C)</p> <p>I = Industrial (-40°C to +85°C)</p> <p><b>PACKAGE TYPE</b></p> <p>P = Plastic Dual In-line Package (PDIP)</p> <p>J = Rectangular Plastic Leaded Chip Carrier (PLCC)</p> <p>S = 44-Pin Small Outline (SO) Package (SO 044)</p> <p>Z = 56-Pin Shrink Small Outline Package (SSOP) (SSO056)</p> <p><i>Thin Small Outline Packages (TSOP):</i></p> <p>E = 32, 40, or 48-Pin Standard Pinout (TS 048) (for Am29F016/017 devices only, E = 48-pin, E4 = 40-pin)</p> <p>E2 = 40/44-pin Type-II Standard Pinout (TS 044)</p> <p>F = 32, 40, or 48-Pin Reverse Pinout (TSR048) (for Am29F016/017 devices only, F = 48-pin, F4 = 40-pin)</p> <p>F2 = 40/44-pin Type-II Reverse Pinout (TSR044)</p> <p><i>Fine-Pitch Ball Grid Array Packages, 0.8 mm ball pitch (unless otherwise noted):</i></p> <p>MA = 63-Ball, 11 x 12 mm body, 1.25 mm height (FSA063)</p> <p>VA = 44-Ball, 9.2 x 8 mm body, 0.5 mm pitch (VDA044)</p> <p><b>SPEED OPTION (t<sub>ACC</sub>), VOLTAGE REGULATION</b></p> <p><i>1.8 Volt Devices</i></p> <p>**(*) = 2 or 3 digits: (Am29SL, DS) Indicates speed in ns, V<sub>CC</sub> = 1.8–2.2 V</p> <p>*A, *B = (Am29BDS) Digit indicates asynchronous speed (5 = 55 ns, 7 = 70 ns, 9 = 90 ns, 11 = 110 ns), letter represents burst mode speed and handshaking availability (A=40 MHz, B=54 MHz, etc. See page 5 notes), V<sub>CC</sub> = 1.7–1.9 V unless otherwise specified</p> <p><i>3 Volt Devices</i></p> <p>**(*) = 2 or 3 digits: Indicates speed in ns; device is full voltage range, V<sub>CC</sub> = 2.7–3.6 V</p> <p>**(*)R = 2 or 3 digits indicate speed in ns, "R" indicates regulated voltage range V<sub>CC</sub> = 3.0–3.6 V</p> <p>**(*)1(R) = (Am29LV64x) First two digits indicate speed in ns x 10. "1" indicates V<sub>IO</sub> &lt; V<sub>CC</sub>, "R", if present, indicates regulated voltage range as defined above</p> <p><i>5 Volt Devices</i></p> <p>**(*)0 = Speed option ends in "0": Indicates speed in ns. V<sub>CC</sub> = 5.0 V ±10% (4.5–5.5 V)</p> <p>*5 = Speed option ends in "5": Check table and/or data sheet for actual speed and voltage range. (Am29F400) If part number has a "0" after the temperature range, then V<sub>CC</sub> = 5.0 V ±10% (4.5–5.5 V)</p> <p><b>SECTOR ARCHITECTURE AND SECTOR WRITE PROTECTION</b></p> <p>T = Top boot sector</p> <p>B = Bottom boot sector</p> <p>H = Uniform sector device, highest address sector protected</p> <p>L = Uniform sector device, lowest address sector protected</p> <p>U/blank = Uniform sector device</p> <p>J40 = (UltraNAND only) 100% usable blocks</p> <p><b>PROCESS TECHNOLOGY</b></p> <p>B = 0.32 μm technology</p> <p>C = 0.32 μm thin-film technology</p> <p>D = 0.23 μm thin-film technology</p> <p>G = 0.17 μm thin-film technology</p> <p>M = MirrorBit technology</p> <p><b>DENSITY, BUS WIDTH, AND SECTOR ORGANIZATION</b></p> <p>***(*) = Density is as noted in table. Digits broadly give an indication of device density. Bus width and organization vary by family.</p> <p><b>FLASH MEMORY DEVICE FAMILY</b></p> <p>Am29BDS = 1.8 Volt-only, Simultaneous Read/Write, Burst Mode</p> <p>Am29DS = 1.8 Volt-only, Simultaneous Read/Write</p> <p>Am29PDS = 1.8 Volt-only, Simultaneous Read/Write, Page Mode</p> <p>Am29SL = 1.8 Volt-only</p> <p>Am29BDD = 2.5 Volt-only, Simultaneous Read/Write, Burst Mode</p> <p>Am29LV = 3 Volt-only</p> <p>Am29DL = 3 Volt-only, Simultaneous Read/Write</p> <p>Am29BL = 3 Volt-only, Burst Mode</p> <p>Am29PL = 3 Volt-only, Page Mode</p> <p>Am29PDL = 3 Volt-only, Simultaneous Read/Write, Page Mode</p> <p>Am30LV = 3 Volt-only, UltraNAND™</p> <p>Am29F = 5 Volt-only</p> <p><i>Fine-Pitch Ball Grid Array Packages (continued)</i></p> <p>WA = 48-Ball, 6 x 8 mm body (FBA048)</p> <p>WB = 48-Ball, 6 x 9 mm body (FBB048)</p> <p>WC = 48-Ball, 8 x 9 mm body (FBC048)</p> <p>WD = 63-Ball, 8 x 14 mm body (FBD063)</p> <p>WG = 40-Ball, 8 x 15 mm body (FBE040)</p> <p>WH = 63-Ball, 12 x 11 mm body (FBE063)</p> <p>WK = 47-Ball, 7 x 10 mm body, 0.5 mm ball pitch (FDD047)</p> <p>WL = 48-Ball, 11 x 10 mm body, 0.5 mm ball pitch (FDE048)</p> <p>WM = 48-Ball, 6 x 12 mm body (FBD048)</p> <p>WN = 84-Ball, 11 x 12 mm body (FBF084)</p> <p>W? = 60-Ball, ? x ? mm body (FDE060)</p> <p><i>Fortified Ball Grid Array Packages, 1.0 mm ball pitch (unless otherwise noted):</i></p> <p>PA = 64-Ball, 13 x 11 mm body, 1 mm height (LSA064)</p> <p>PB = 80-Ball, 13 x 11 mm body (LAA080)</p> <p>PC = 64-Ball 13 x 11 mm body (LAA064)</p> <p>PE = 80-Ball, 10 x 15 mm body (LAB080)</p>
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