#### polyfet rf devices

An Introduction

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# <u>History</u>

 1976 Polycore Electronics - a Si. Foundry 1985 formed Polycore RF Devices 1988 Polyfet RF Devices California Corporation - Privately Owned Profitable every year since 1988 + 8 times revenue increase since 1988 1995 - Fast 50 High Tech Co. in So. Cal.

### Financials

Polyfet has no long term debt
Wholly owned equipment
Strong cash position
Profitable

## MARKET

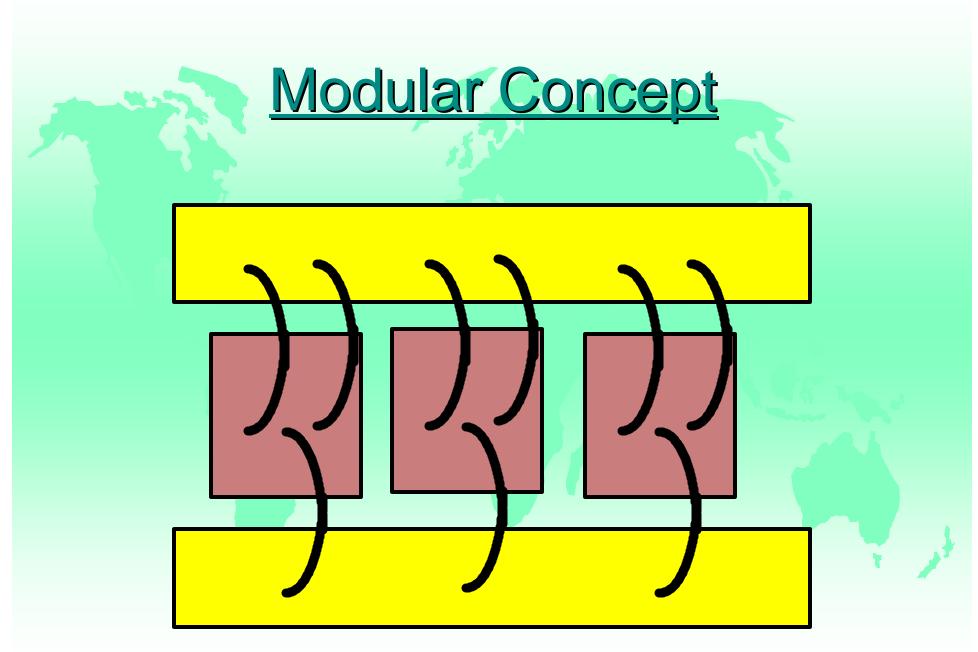
50% Commercial 50% Military
50% Domestic 50% Overseas
Not in PCS 2 Ghz Market
Strong concentration in Military
Broadband High Power Amps
High gain Ldmos drivers

### Technology Highlights

 Patented Gold metalized VDMOS process 1986 - 1st with 1 Ghz product introduction Power out up to 300W • 28V, 12.5V, 50V line Modular Die concept. 1996 - LDMOS technology 1997 - 2nd Generation VDMOS

#### Modular Die Concept

S1 Die - 25W/die
S2 Die - 2.5W/die
12.5V and 28V same mask set
Parallel Die for higher power
Push pull and Single ended



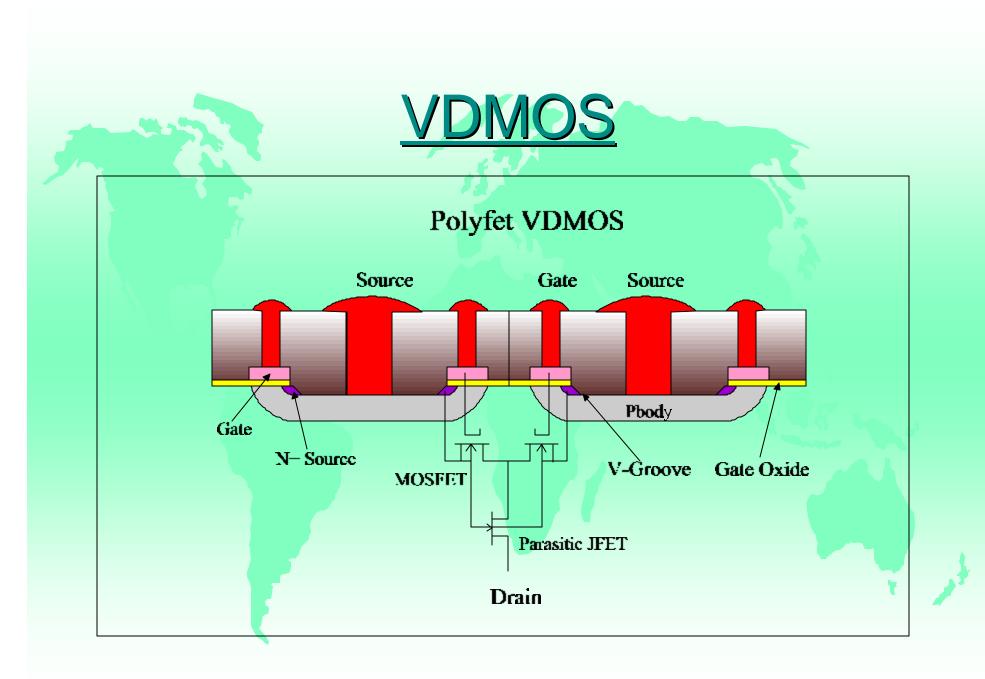
### Manufacturing

2 active Si. Foundries. Total 6 proven.
Foundries process to our specifications
Assembly done in house. Capacity 10K/mo.
Quality System to MIL I 45208A approved by Rockwell Collins.
2-4 wks turnaround.

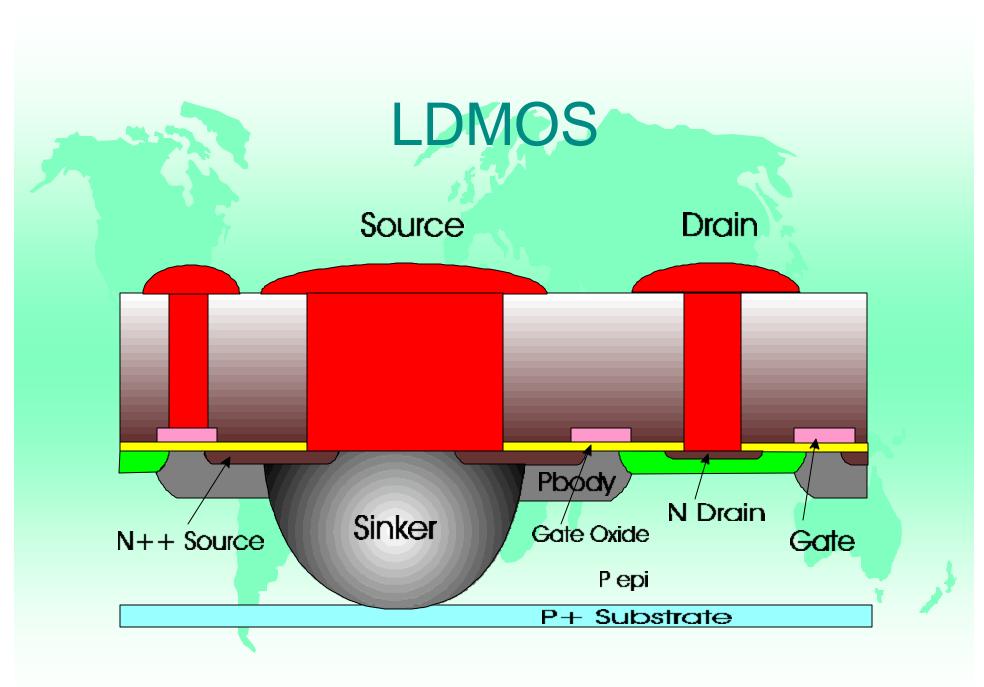
### **VDMOS vs LDMOS**

- <u>Vertical DMOS</u>
- Bottom Side Drain
- Source bond wire reducing gain
- Higher Crss
- BEO isolation
- High Package Cost

+ Lateral DMOS **+** Bottom Side Source + No source bondwire + 3 dB higher gain + Lower Crss + Higher Power + Higher Efficiency + Lower Package Cost + No BEO required



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