

The top section of the slide features a background image of the Earth's horizon from space. In the upper right, the 'winbond' logo is written in a bold, red, italicized sans-serif font. Below it, the text 'A Global Supplier of Advanced Memory Solutions' is displayed in a smaller, red, sans-serif font. On the left side, a black memory chip is shown at an angle, with the 'winbond' logo and the slogan 'We Deliver' printed on its surface.

winbond

A Global Supplier of
Advanced Memory Solutions

Comparison table (W25Q32JV vs W25Q32FV)

Nov.2015



Comparison table

3V 64Mb-bit				
	Product Number		W25Q32FV	W25Q32JV
General				
	Density		32Mb	32Mb
	Power Supply		2.7~3.6V	2.7~3.6V
	Temperature		-40~85°C	-40~85°C
	Max. Fast Read Frequency		104MHz	104MHz
	Max. Normal Read Frequency		50MHz	50MHz
	Special OTP		v	v
DC			Typical/Max.	Typical/Max.
	ICC1	Standby Current	10μA/50μA	10μA/50μA
	ICC2	Power-Down Current	1μA/20μA	1μA/15μA
	ICC3	Data Read Current (50MHz)	15mA	15mA
	ICC3	Data Read Current (80MHz)	18mA	18mA
	ICC3	Data Read Current(104MHz)	20mA	20mA
	ICC5	Current Page Program	20mA/25mA	20mA/25mA
	ICC6	Current Sector/Block Erase	20mA/25mA	20mA/25mA
	ICC7	Current Chip Erase	20mA/25mA	20mA/25mA



	Product Number		W25Q32FV	W25Q32JV
AC				
	tCLH/tCLL	Clock High/Low Time	4ns	3.47ns
	tSHSL(tCSH)	/CS Deselect Time (Array / SR or ID)	50ns	50ns
	tCLQV	Clock Low to Output Valid(max)	7ns	6ns
	tWHSL	Write Protect Setup Time Before /CS L	20ns	20ns
	tSHWL	Write Protect Hold Time After /CS High	100ns	100ns
	tW	Write Status Register Time	10m/15ms	10m/15ms
	tPP	Page Program Time	0.7ms/3ms	0.7ms/3ms
	tSE	Sector Erase Time (4KB)	45ms/400ms	45ms/400ms
	tBE1	Block Erase Time (32KB)	120/1600ms	120/1600ms
	tBE2	Block Erase Time (64KB)	150/2000ms	150/2000ms
	tCE	Chip Erase Time	10/50s	10/50s
Command			W25Q32FV	W25Q32JV
	Write Enable		06h	06h
	Write Disable		04h	04h
	Read Status Register-1		05h	05h
	Write Status Register-1		01h	01h
	Page Program		02h	02h
	Sector Erase (4KB)		20h	20h
	Block Erase (32KB)		52h	52h
	Block Erase (64KB)		D8h	D8h



	Block Erase (64KB)	D8h	D8h
	Chip Erase	C7h/60h	C7h/60h
	Power-down	B9h	B9h
	Read Data	03h	03h
	Fast Read	0Bh	0Bh
	Fast Read Dual Output	3Bh	3Bh
	Fast Read Dual I/O	BBh	BBh
	Release Power down/ Device ID	ABh	ABh
	Manufacturer/Device ID	90h	90h
	Manufacturer/Device ID by Dual I/O	92h	92h
	Enable Reset	66h	66h
	Reset Device	99h	99h
ID			
	Manufacturer ID	EFh	EFh
	Device ID (ABh, 90h)	15h	15h
	JEDEC ID (9Fh)	4016h	4016h