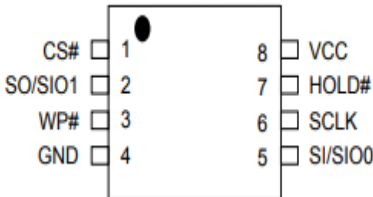


MX25V8006EM1I-13G vs N25Q032A13ESC40F/A0F Comparison

Features	MX25V8006EM1I-13G	<u>N25Q032A13ESC40F</u>	<u>N25Q032A13ESCA0F</u>
Manufacturer/Supplier	Macronix	Micron/Alliance Memory	Micron/Alliance Memory
Product	Serial NOR FLASH	Serial NOR Flash	Serial NOR Flash
Density	8Mb	32Mb	32Mb
SPI	x1, x2 (Single/Dual SPI)	x1/x2/x4 (Single/Dual/Quad SPI)	x1/x2/x4 (Single/Dual/Quad SPI)
Architecture	Sectors with 4KB each Blocks with 64KB each	Sectors with 4KB each Blocks with 64KB each	Sectors with 4KB each Blocks with 64KB each
Power Supply	2.35V~3.6V	2.7V ~3.6V	2.7V ~3.6V
Speed (Max)	75MHz Serial Clock	108MHz	108MHz
Fast Program time	Max.3ms / page	Max.5ms	Max.5ms
Fast Erase time	Typical 0.4s/Block	Max.0.8s/Subsector	Max.0.8s/Subsector
Active read current	12mA (Max.) @ 75MHz	15mA (Max.) @ 108MHz	15mA (Max.) @ 108MHz
Active Prog. current	15mA (Typical)	20mA (Max.)	20mA (Max.)
Active erase current	9mA (Typicals)	20mA (Max.)	20mA (Max.)
Power down current	Deep Power down 2uA (Typical)	Standby Current 100uA (Max.)	Standby Current 100uA (Max.)
Typical Erase/Program cycles	Min.100,000 cycles	Min.100,000 cycles	Min.100,000 cycles
Data Retention	20years	>20years	>20years
Protection	Block Lock Protection	Block Lock Protection	Block Lock Protection
Package	8pin SOP (150mils)	8pin SOP (150mils)	8pin SOP (150mils)
Operating Temperature	-40C~85C Industrial Grade	-40C~85C Industrial Grade	-40C~125C Automotive Grade
Compliance	ROHS an Halogen Free	ROHS an Halogen Free	ROHS an Halogen Free
Pin to Pin compatibility	Yes 	Yes 