

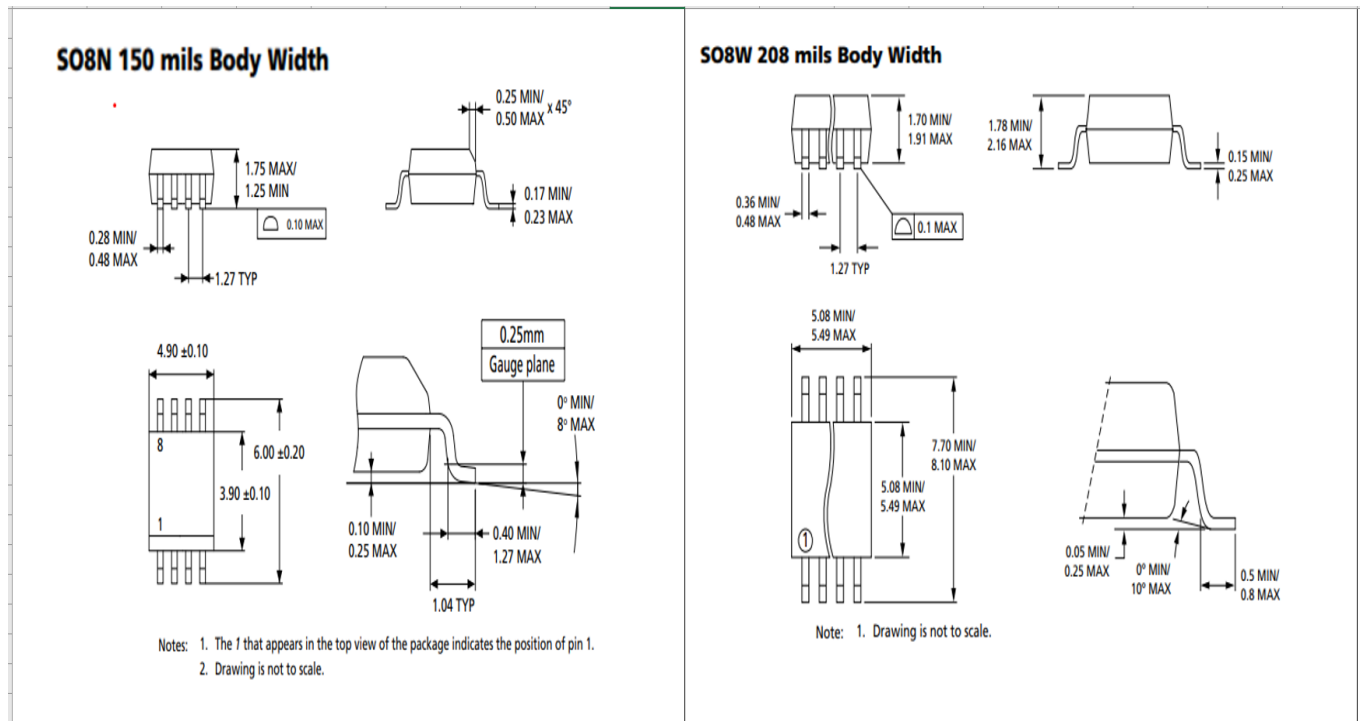
General Features

Table 1: Comparison of Features

Features	M25PE16-VMW6TG	M25P16-VMN6TP
Densities	16Mb	16Mb
Program	1 to 256 bytes	1 to 256 bytes
Sector architecture	Uniform sector: 64KB	Uniform sector: 64KB
Subsector	Uniform sector: 4KB	–
Endurance	100,000 cycle	100,000 cycle
Retention	20 years	20 years
V _{CC} range	2.7V to 3.6V	2.7V to 3.6V
Industrial temperature range	–40 to +85°C	–40 to +85°C

Table 2: Package Configurations

Part Name	Package	Short Name
M25PE16-VMW6TG	8-pin SOP2, 208 mil	SO8W
M25P16-VMN6TP	8-pin SOP2, 150 mil	SO8N



Signal Descriptions & Differences

M25PE16	M25P16	Type	Description
S#	S#	Input	Chip select
C	C	Input	Serial clock
DQ0	DQ0	Input	Serial data input,
DQ1	DQ1	Output	Serial data output
W#	W#/V _{pp}	Input	M25PE16: Write protect, M25P16: Write protect & enhanced program voltage
RESET#	HOLD#	Input	M25PE16: RESET, M25P16: HOLD
V _{CC}	V _{CC}	Supply	Power supply
V _{SS}	V _{SS}	Supply	Ground

Command Set & Differences

Command	Command Code	
	M25PE16	M25P16
WRITE Operations		
WRITE ENABLE	06h	06h
WRITE DISABLE	04h	04h
READ ID Operation		
READ DEVICE ID	9Fh	9Fh
STATUS REGISTER OPERATIONS		
READ STATUS REGISTER	05h	05h
WRITE STATUS REGISTER	01h	01h
READ Operation		
READ	03h	03h
FAST READ	0Bh	0Bh
PROGRAM		
PAGE PROGRAM	02h	02h
PAGE WRITE	0Ah	N/A
ERASE		
PAGE ERASE	DBh	N/A
4KB SUBSECTOR ERASE	20h	N/A
SECTOR ERASE	D8h	D8h
BULK ERASE	C7h	C7hh
DEEP POWER DOWN Operations		
ENTER DEEP POWER DOWN	B9h	B9h
RELEASE FROM DEEP POWER DOWN	ABh	ABh



M25PE16-VMW6TG vs M25P16-VMN6TP 16Mb Comparison
