

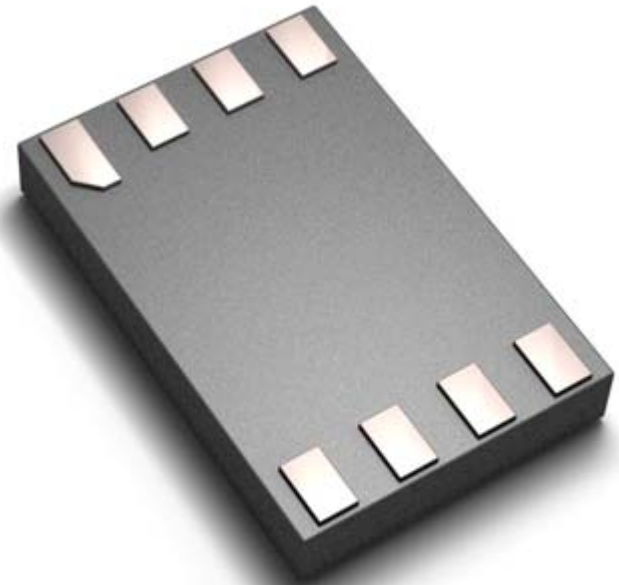
# VSSOP Package Replacement

VSSOP8 Package  
(a.k.a. SOT765\*, US8, MO-187)  
\*NXP PicoGate DC = SOT765-1

XSON8U Package  
(New NXP SOT996-2)



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**Same foot print, same art work, **Dark Green\***, lower cost!**

\* Dark Green = RoHS compliant and halogen + antimony free

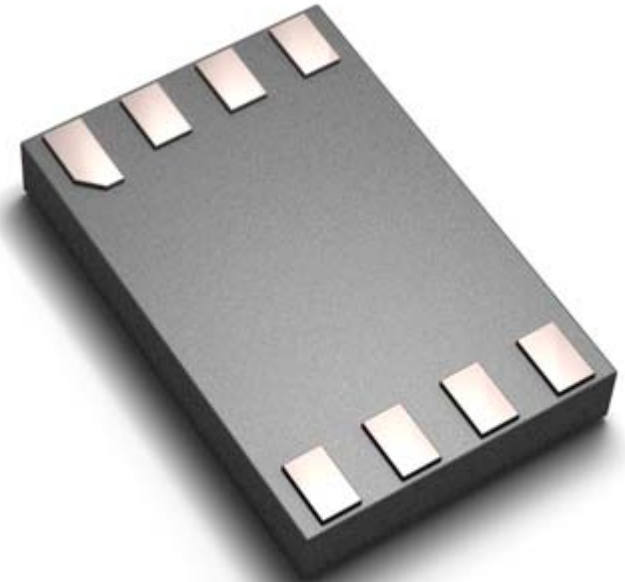
# VSSOP Package Replacement

Package Suffix = DC<sup>1</sup>,  
DCU<sup>2</sup>, FK<sup>3</sup>, K8<sup>4</sup>, US<sup>5</sup>  
(SOT765)

NXP Package Suffix = GD  
(SOT996-2)



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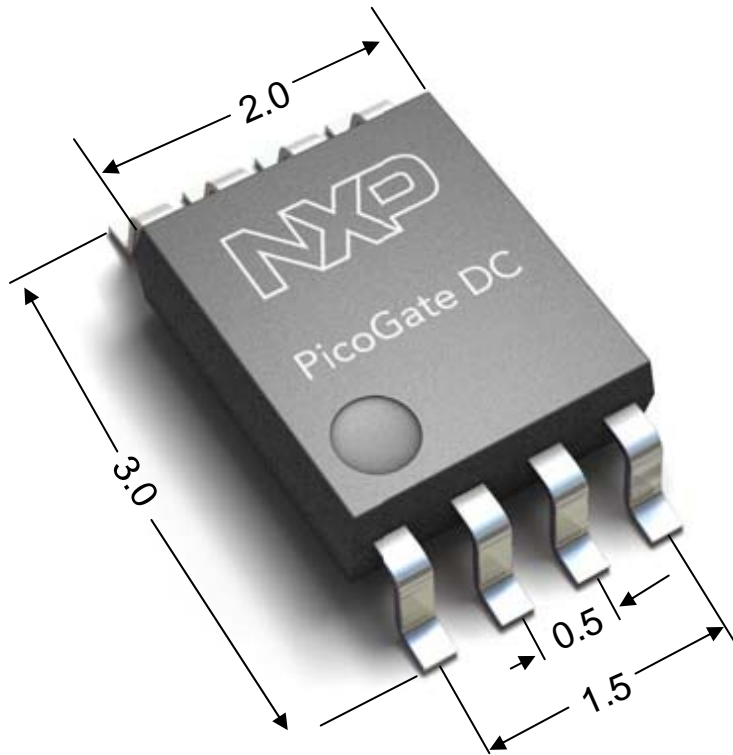


## Manufacturer VSSOP8 Suffix

1 NXP =	DC	4 FSC =	K8
2 TI =	DCU	5 ON =	US
3 Toshiba =	FK		

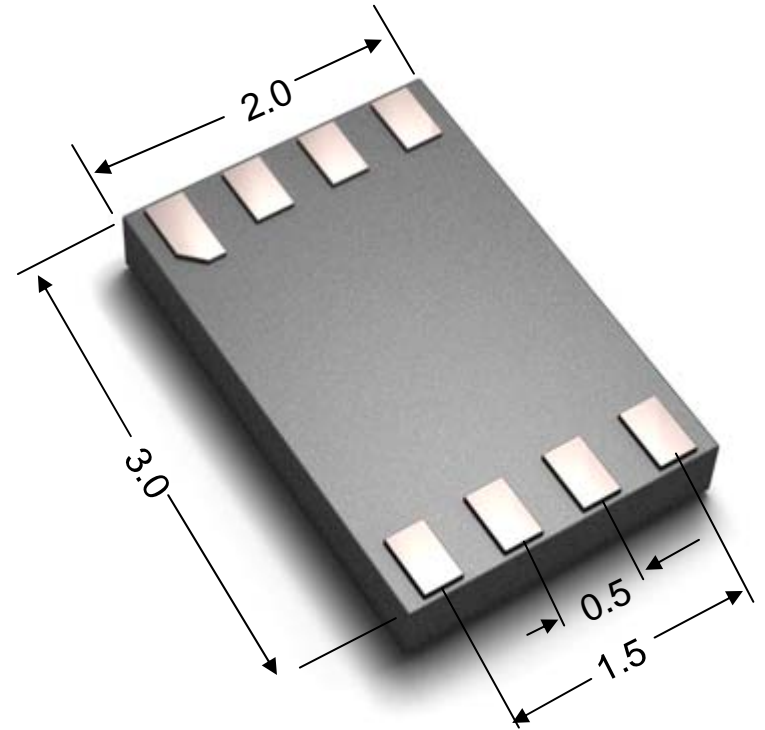
# VSSOP Package Replacement

VSSOP8 Package  
(SOT765-1, US8, MO-187)



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XSON8U  
(SOT996-2)



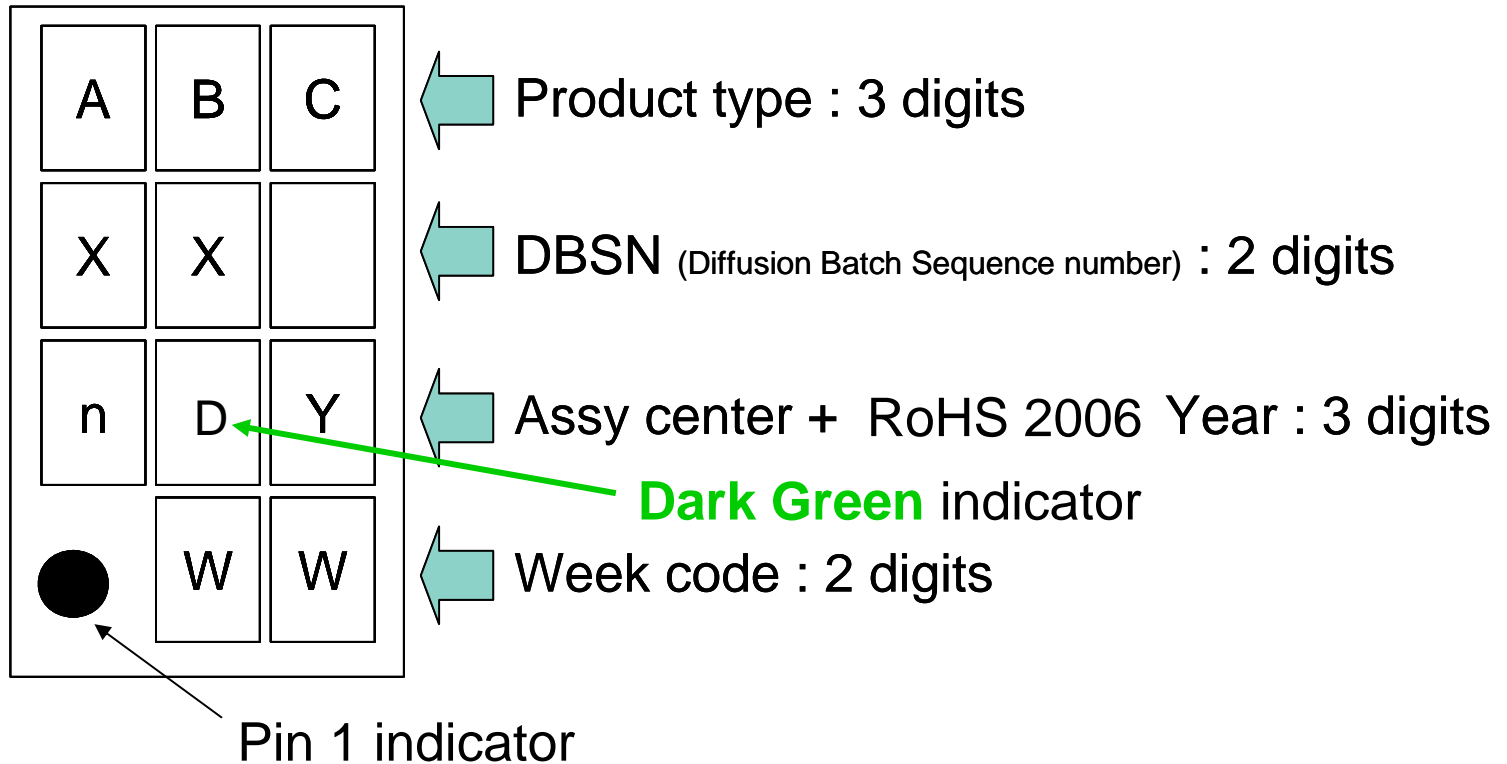
1.0 mm vs. 0.5 mm Height

# NXP Package Nomenclature and Marking

- ▶ Package Name: XSON8U
- ▶ Package Number: SOT996-2
- ▶ Package Suffix: GD
- ▶ Dimensions: 3.0 x 2.0 x 0.5 mm
- ▶ Pad Pitch: 0.5 mm
- ▶ Package Technology: UTLP
- ▶ Pack Quantity: 3K Pieces/Reel

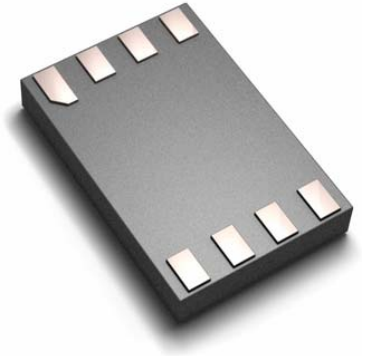
# Top Mark

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Refer to SNW-FA-01-02 : Marking specification

## Benefits of XSON8U



- ▶ Same die as used in VSSOP8 package
- ▶ Same size and footprint as the VSSOP8 package
- ▶ Operating temperature range -40°C to +125°C
- ▶ Automotive qualified; JEDEC-STD-20C and Q100
- ▶ Standard 0.5 mm lead spacing
- ▶ Leadless = No bend leads , co-planarity <0.1mm
- ▶ Pb-free, RoHS, and Dark Green compliant
- ▶ More cost effective