

# XDL605/XDL606 Series

## 600mA Low Power Consumption Coil-integrated Step-down DC / DC converter for Automotive

**AEC-Q100 Grade2**

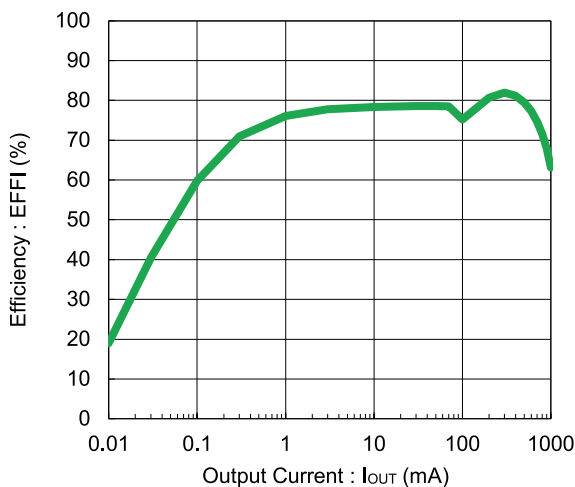
### Point

1. Wide range of input voltage: 3.0V ~ 36V  
46V ( $\leq 400\text{ms}$ ) Surge Withstand Voltage
2. Significant space saving compared to conventional DC/DC product
3. Low noise: Achieves low EMI by optimizing the circuit.
4. Light load, High efficiency, Ultra low power consumption.
5. High reliability: Wettable flank structure, high heat dissipation package.

**36V**

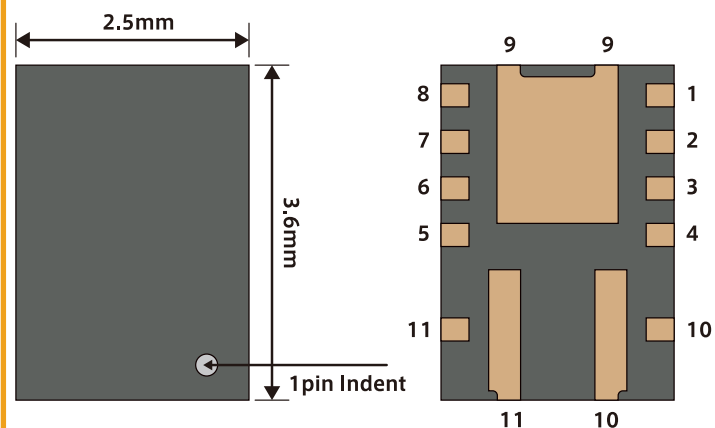
### Typical characteristics

XDL606 ( $V_{OUT}=5.0V$ )



### Package

#### Wettable Flank



**DFN3625-11B**

### Features

Input Voltage Range	3.0V~36.0V (Absolute Max:40V)	Control Methods	PWM Control (XDL605)
Output Voltage Range	1.0V~5.0V (FB Accuracy:±1.5%)		PWM/PFM Auto (XDL606)
Output Current	600mA	Function	Power Good
Efficiency	75% ( $V_{IN}=12V \Rightarrow V_{OUT}=5V/1mA$ )		Soft-start External Settings
Oscillation Frequency	2.2MHz	Protection Functions	Over Current Protection(Automatic)
Maximum Duty	100%		Thermal Shutdown,UVLO
Packages	DFN3625-11B	Temperature	-40°C ~ +105°C