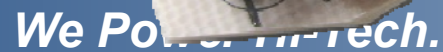




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Car Charger Solution



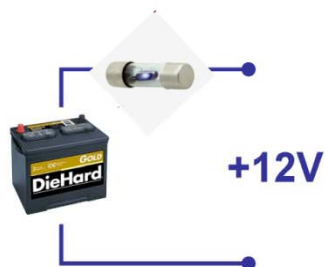


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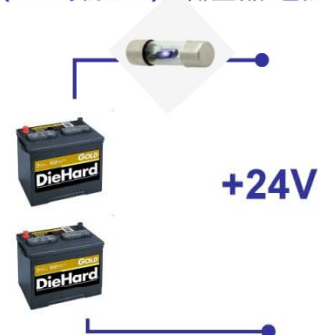
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➡ Car Cigarette Power Supply

小型車點煙器電源: 12V / ~10A (fuse)



卡車(3.5噸以上)點煙器電源: 24V / ~10A (fuse)



➡ Car Charger End Products



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➔ Car Charger Controller Series

✓ N2205V

Application with External Pch MosFet

✓ A2202V

For 10W ~ 20W Car Charger

➔ Car Charger Controller Build-in Mosfet Series

✓ N2105V

For 5W ~ 10.5W High Performance

✓ A2103V

For 5W ~ 7.5W Low Cost/High Performance

✓ A2102V

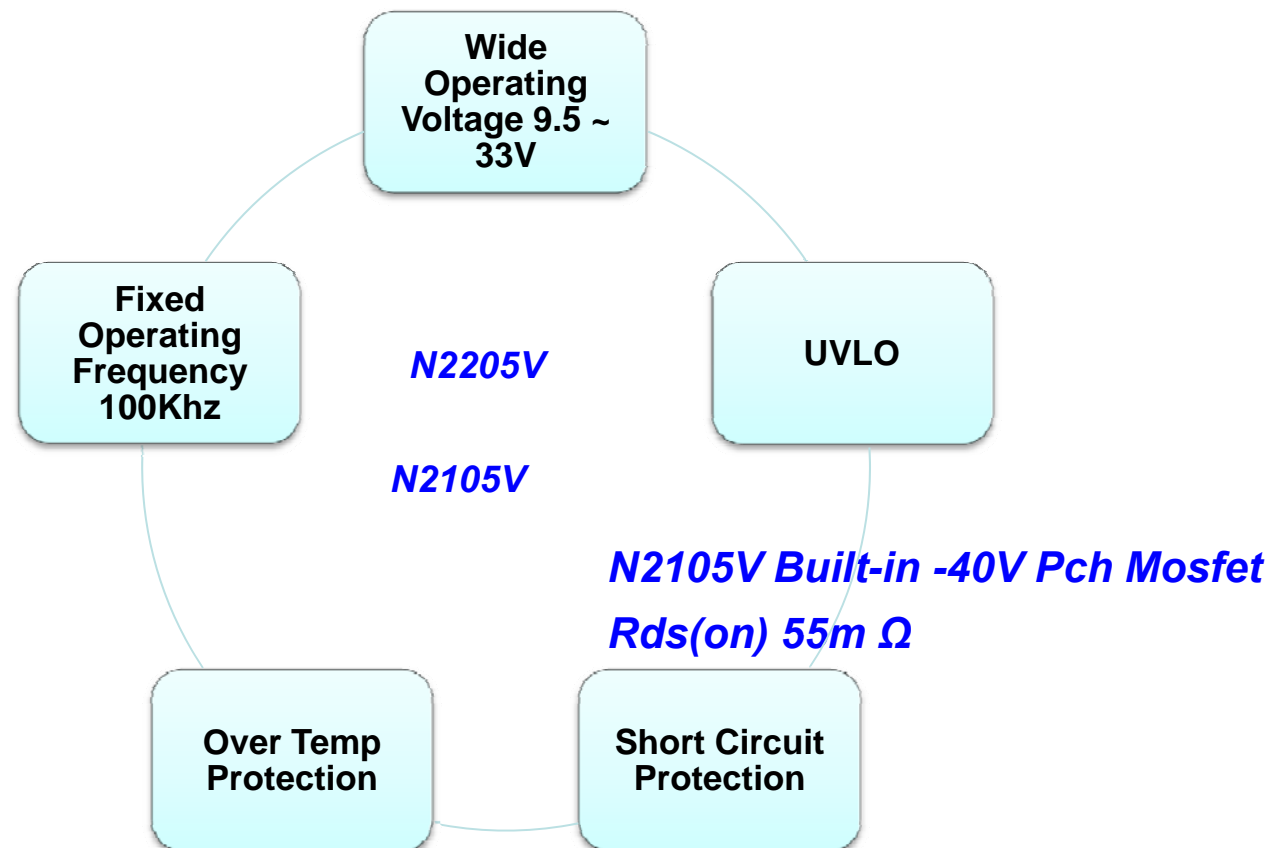
For 7.5W ~ 10.5W Low Cost/High Performance



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➔ N series Main Features



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➤ N series Other Features

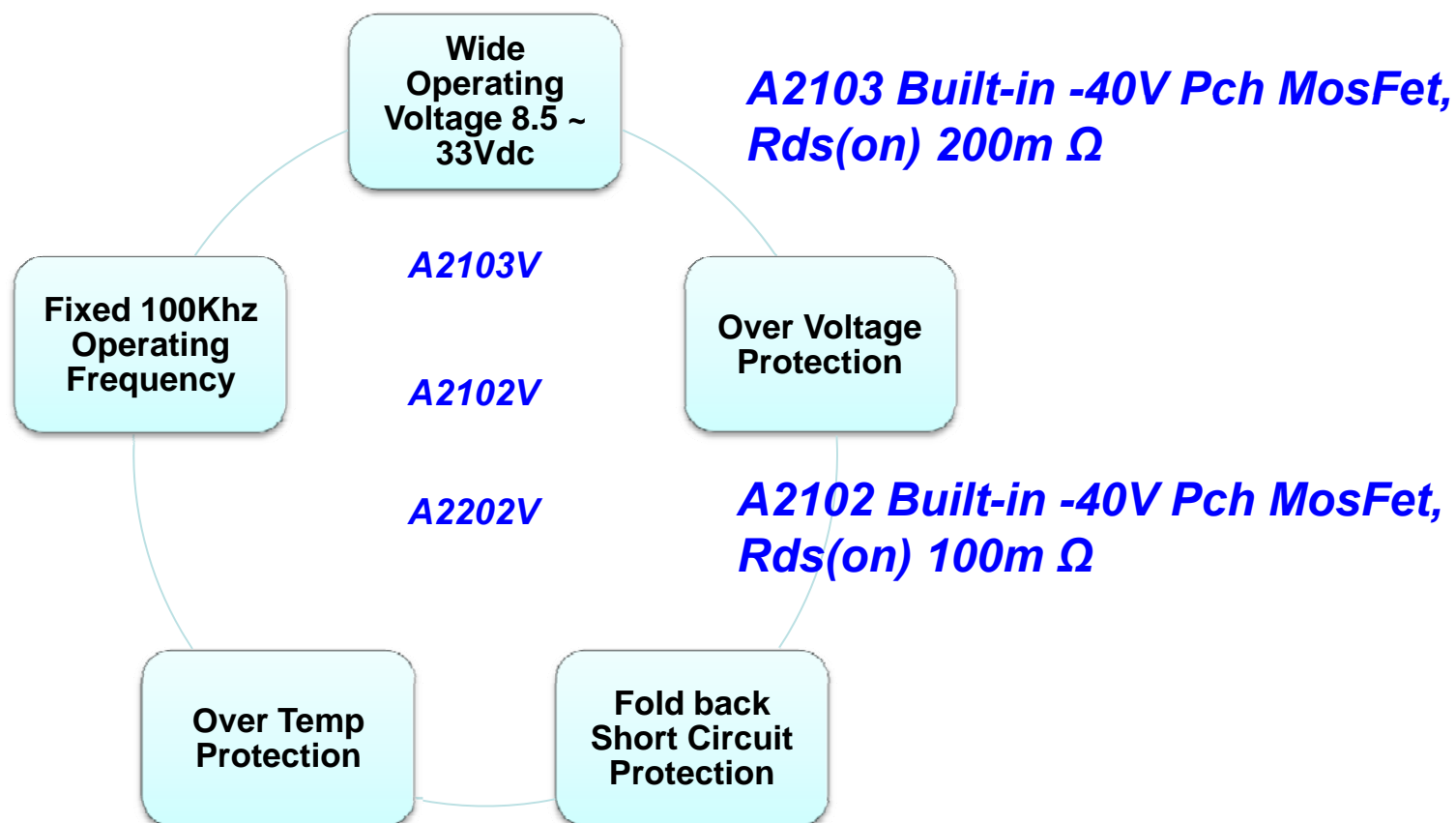
- **CC/CV Mode Control**
- **Soft Start Function For Start Up**
- **$\pm 1\%$ Voltage Reference Accuracy**
- **$\pm 5\%$ Current Limit Accuracy**
- **ISO 7637-2 Pulse 1-4 Compliant**
- **SOP-8 Package without Thermal Pad**



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➔ A series Main Features



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➤ *A series Other Features*

- *CC/CV Mode Control*
- *UVLO*
- *Soft Start Function For Start Up*
- *$\pm 1\%$ Voltage Reference Accuracy*
- *$\pm 2\%$, $\pm 4\%$, $\pm 8\%$ Current Limit Accuracy*
- *ISO 7637-2 Pulse 1-4 Compliant*
- *SOP-8 Package without Thermal Pad*



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➡ What's difference between N series & A series

➤ **Start Up Voltage**

◆ **N Series: Start Up Voltage 9.5V(min)**

◆ **A Series: Start Up Voltage 8.5V(min)**

➤ **Short Circuit Protection**

◆ **N Series: Current Limit**

◆ **A Series: Fold Back (Hi-Cup mode)**

➤ **Output Over Voltage Protection**

◆ **N Series: Without this function**

◆ **A Series: Include this function**

➤ **Built-in -40V Pch MosFet Rds(on)**

◆ **N2105V: 55m Ω (max)**

◆ **A2103V: 200m Ω (max)**

◆ **A2102V: 100m Ω (max)**



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➤ N series & A series Performance Table

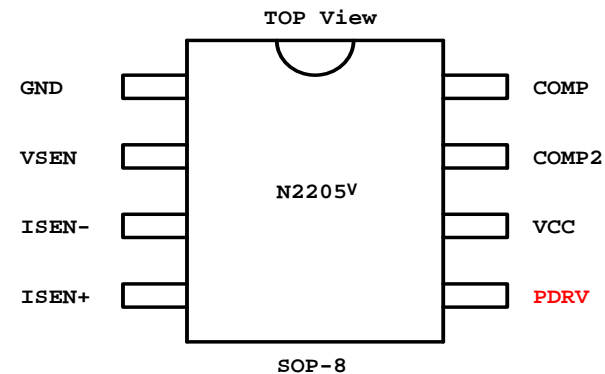
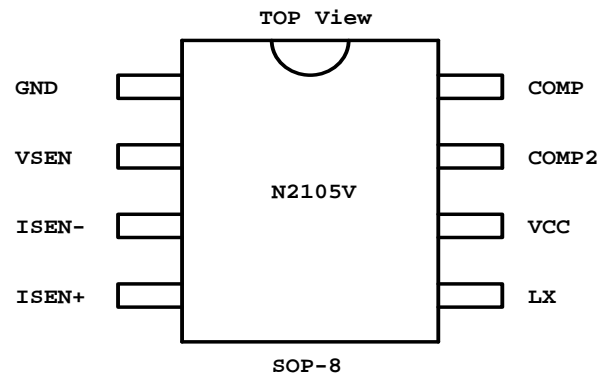
		N Series		A Series		
Electrical	Controller	N2105V	N2205V	A2103V	A2102V	A2202V
	Package	SOP-8		SOP-8		
	Vin, V(max)	40		40		
	Operating Range, V	9.5 ~ 33		8.5 ~ 33		
	Operating Temperature, °C	135°C		135°C		
	Frequency, Khz	100		100		
	Built-in MOSFET Rds(on) mΩ, Max	55	External MosFet	200	100	External MosFet
	Iout, A(max)	2.2	3	1.5	3	3
Build-in Protection	UVLO		⊙	⊙	⊙	⊙
	OCP		⊙	⊙	⊙	⊙
	OTP		⊙	⊙	⊙	⊙
	OVP		X	X	⊙	⊙
	SCP	Current Limit	⊙	⊙	X	
		Fold Back	X		⊙	⊙
Operation Mode	Constant Voltage		⊙	⊙	⊙	⊙
	Constant Current		⊙	⊙	⊙	⊙



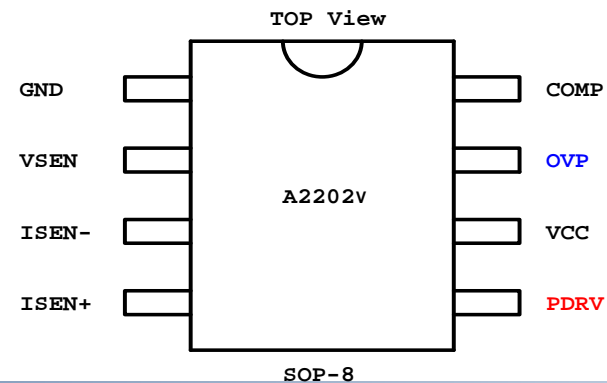
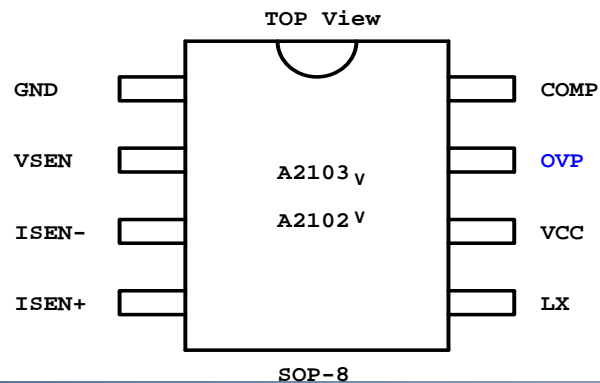
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➡ N series Pin Configurations



➡ A series Pin Configurations



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