



COMMON DRAIN DUAL MOSFETS IN PowerPAK® 1212-8SCD

Bidirectional Switches Replace Two MOSFETs in Single PowerPAK 1212-8

KEY SPECIFICATIONS

- Exceptionally low $R_{S-S(ON)}$ specification
- Common-drain connection structure for bidirectional conduction
- Half the space of 2X PowerPAK 1212-8

TARGET CIRCUIT APPLICATIONS

- Battery management
- Bidirectional switches
- Load switching



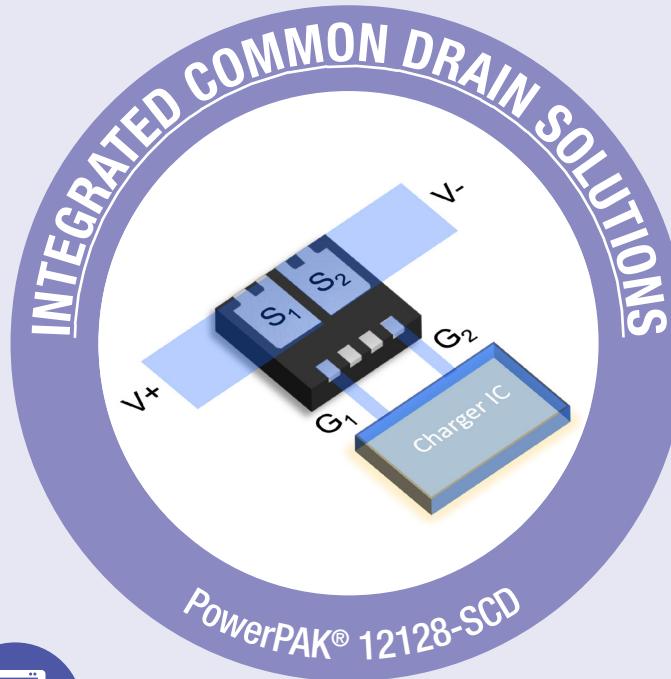
MOTORIZED
ELECTRONICS



BATTERY
MANAGEMENT SYSTEMS



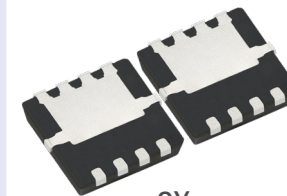
TABLETS



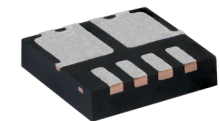
DESIGN BENEFITS:

- Optimal layout design
- Increase power density by 50 % by replacing two devices in single PowerPAK 1212-8
- Minimize component counts
- Newly released SiSF54DN with best $R_{S-S(ON)}$ rating is based on Vishay Gen V MOSFET technology

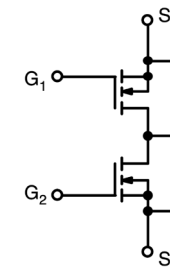
SPACE SAVINGS = 50 %



2X
PowerPAK®
1212-8 21.78 mm²



PowerPAK®
1212-8SCD
10.89 mm²



Part Number	Package	V_{DS} (V)	V_{GS} (V)	$R_{SS(on)}$ @ 10 V, max (mΩ)	$R_{SS(on)}$ @ 4.5 V, max (mΩ)	Q_g @ 4.5 V (nC)	R_g (Ω)
SiSF12EDN	PowerPAK® 1212-8SCD	12	8		3.6	45.5	1.0
SiSF02DN	PowerPAK® 1212-8SCD	25	16	3.5	5.6	16.9	1.1
SiSF54DN	PowerPAK® 1212-8SCD	30	16	3.1	4.9	12	0.6
SiSF00DN	PowerPAK® 1212-8SCD	30	20	5	7	16.1	1.5
SiSF20DN	PowerPAK® 1212-8SCD	60	20	13	18.5	10	0.7

For Technical Questions: pmostechsupport@vishay.com

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