FEATURED PRODUCT

Good-Ark Semiconductor 80V-85V N-Channel SGT MOSFETs

In PPAK5x6/ TO-220/ TO-263/ TOLL Packages

Good-Ark Semiconductor introduces 80V-85V, N-Channel SGT MOSFETs series with the industry's lowest $R_{DS(ON)}$ and outstanding Qgd in various package types. This series utilizes the latest shielded-gate trench (SGT) technology and advance clip bonding techniques to achieve industry's leading figure of merit (FOM) performance with minimum conduction loss.

Available in various power packages with outstanding power dissipation capability, this product series is designed to meet the demands of space constraint applications that require higher power density and optimal efficiency. Reducing the number of MOSFETs in parallel, increasing overall system reliability while achieving cost saving, this SGT MOSFETs series is ideal for synchronous rectifications in 5G telecom, server power supply, battery power drivers and adapters, and BLDC motors.

FEATURES

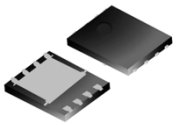
- Best-in-class on-resistance
- High current density and efficiency
- Lower gate-charge
- Industry leading figure of merit (FOM)

BENEFITS

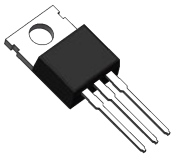
- Small footprint and higher power density
- Reduces the number of MOSFETs in parallel
- Increases system reliability while achieving cost-saving

APPLICATIONS

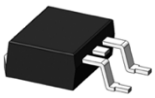
- BMS
- High frequency switch
- Synchronous rectification
- BLDC motor
- Server



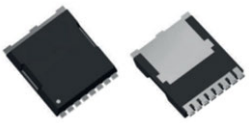
PPAK5x6



TO-220



TO-263



TOLL

Free samples available for immediate testing.
Contact us at: (+1) 631-319-1858 or
inquiry@goodarksemi.com

KEY SPECIFICATIONS

Part Number	Package	I_D	V_{DS}	V_{GS}	$V_{GS(TH)}$		R_{DSON} @ V_{GS}=10V		Q_{GD}	Q_G	Ciss	T_J, T_{STG}
		Max (A)	Max (V)	Max (V)	Min (V)	Max (V)	Typ. (mΩ)	Max (mΩ)	Typ. (nC)	Typ. (nC)	(pF)	(°C)
GSGTL1R608	TOLL	300	80	±20	2.1	3.9	1.1	1.6	52	202	13000	-55 to +150
GSGP2R608	PPAK5x6	170	80	±20	2.1	3.9	2.2	2.6	17	95	6022	-55 to +150
GSGP3R608	PPAK5x6	100	80	±20	2.0	4.0	3.0	3.6	13	67	4435	-55 to +150
GSGT5R585	TO-263	120	85	±20	2.2	3.9	4.2	5.5	16	69	4284	-55 to +150
GSGH5R585	TO-220	120	85	±20	2.2	3.9	4.5	5.5	16	69	4284	-55 to +150

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GOOD-ARK SEMICONDUCTOR