



→ **FEATURED PRODUCT**

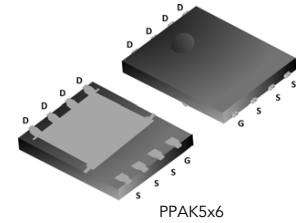
**Good-Ark Semiconductor GSGP0R703**

**30V, 282A, 0.55mΩ, N-Channel SGT MOSFET in PPAK5x6 Package**

Good-Ark Semiconductor introduces GSGP0R703, a 30V, 282A, N-Channel SGT MOSFET with industry's lowest  $R_{DS(ON)}$  of 0.55mΩ @ $I_D=30A$ ,  $V_{GS}=10V$ . GSGP0R703 utilizes the latest split-gate technology (SGT) and advanced clip bonding techniques to achieve outstanding FOM performance, minimizing switching and conduction losses. Packaged in the compact PPAK5x6 package, GSGP0R703 is ideal for DC/DC converters, synchronous rectification, on board power for servers, motor controls and high power density point of load which require high switching and optimal efficiency.

**FEATURES**

- Best-in-class on-resistance (typical 0.55mΩ)
- High current density
- Lower gate-charge
- Low switching and conduction loss
- Lower Qgd reducing Miller charge coupling



**BENEFITS**

- Small footprint and higher power density
- Better EMI behavior
- Cost saving
- Outstanding FOM performance

**APPLICATIONS**

- DC-DC conversion
- High frequency switch
- Synchronous rectification
- Motor control
- Industrial SMPS

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

**KEY SPECIFICATIONS**

Part Number	$I_D$	$V_{DS}$	$V_{GS}$	$V_{GS(TH)}$ @ $V_{DS}=V_{GS}$ , $I_D=250\mu A$		$R_{DS(ON)}$ @ $I_D=30A$ , $V_{GS}=10V$		$Q_{GD}$ @ $V_{DD}=15V$ , $I_D=45A$ , $V_{GS}=10V$	$Q_G$ @ $V_{DD}=15V$ , $I_D=45A$ , $V_{GS}=10V$	$C_{iss}$	$T_J, T_{STG}$
	Max (A)	Max (V)	Max (V)	Min (V)	Max (V)	Typ- (mΩ)	Max (mΩ)	Typ- (nC)	Typ- (nC)	(pF)	(°C)
<b>GSGP0R703</b>	282	30	±20	1.3	2.3	0.55	0.70	7.7	122	9045	-55 to +150

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