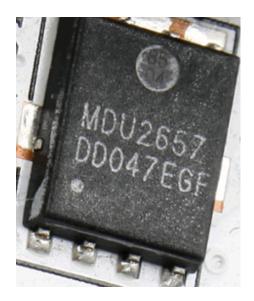
MDU2657



Part Number: MDU2657

Function: Single N-channel Trench MOSFET 30V. 61.7A, 7.5mOhm

Manufacturers: MagnaChip

Description

The device uses advanced Magnachip's MOSFET technology, which provides high performance in on-state resistance, fast switching performance and excellent quality. MDU2657 is suitable device for DC/DC converter and general purpose application.

Features

1. Vds = 30V

2. Id = 61.7A @ Vgs = 10V

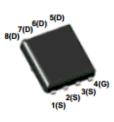
Single N-channel Trench MOSFET 30V, 61.7A, 7.5mΩ

General Description

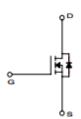
The MDU2657 uses advanced MagnaChip's MOSFET Technology, which provides high performance in on-state resistance, fast switching performance and excellent quality. MDU2657 is suitable device for DC/DC Converter and general purpose applications.

Features

- $\begin{array}{l} V_{DS} = 30V \\ I_{D} = 61.7A \ @V_{GS} = 10V \\ R_{DS(DN)} \\ < 7.5m\Omega \ @V_{DS} = 10V \\ < 11.3m\Omega \ @V_{DS} = 4.5V \\ 100\% \ UIL \ Tested \\ 100\% \ Rg \ Tested \\ \end{array}$







Absolute Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit
Drain-Source Voltage		Voss	30	V
Gate-Source Voltage		Voss	±20	v
Continuous Drain Current (19	Te=25°C	l _o	61.7	A
	Te=70°C		49.3	
	T _A =25°C		20.4 ⁽³⁾	
	T _A =70°C		16.3 ⁽³⁾	
Pulsed Drain Current		I _{DM}	100	Α
Power Dissipation	T _c =25°C	P _B	50	w
	Tc=70°C		32	
	T _A =25°C		5.5 ⁽³⁾	
	T _A =70°C		3.5(2)	
Single Pulse Avalanche Energy ^(p)		E _{AB}	81	mJ
Junction and Storage Temperature Range		T _A , T _{eq}	-55-150	°C

Thermal Characteristics

Symbol	Rating	Unit
Rux	22.7	*C/W
Ruc	2.5	
	Rus	R _{6.0} 22.7

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MagnaChip Semiconductor Ltd.