



N-channel Enhancement Mode Mosfet

CX4040

DESCRIPTION

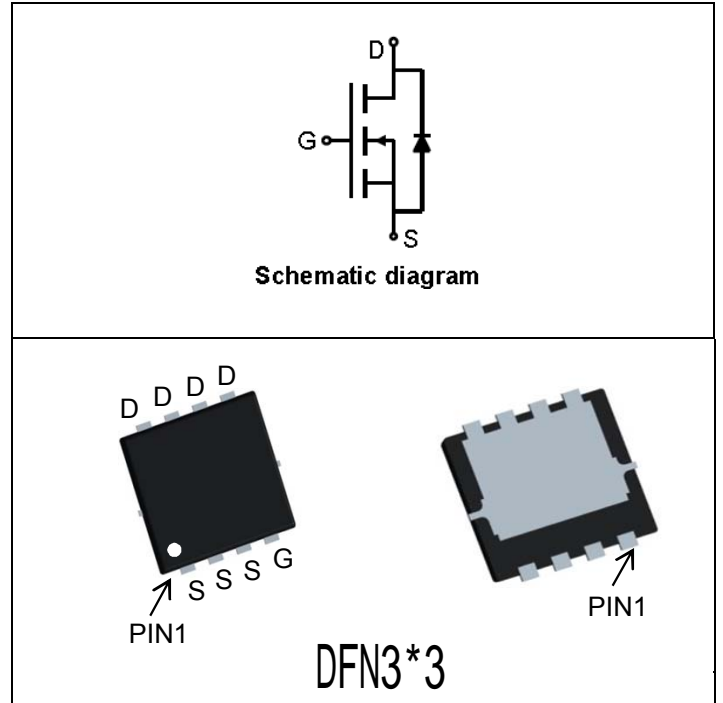
The CX4040 uses advanced trench technology to provide excellent $R_{DS(ON)}$ and low gate charge. This device is suitable for use as a load switch or in PWM applications.

GENERAL FEATURES

- $R_{DS(ON)} < 5.5m\Omega @ V_{GS}=10V$
 $R_{DS(ON)} < 8m\Omega @ V_{GS}=4.5V$
- High Power and current handling capability
- Lead free product is acquired
- Surface Mount Package

Application

- PWM applications
- Load switch
- Power management



■ Absolute Maximum Ratings ($T_A=25^\circ C$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Drain-source Voltage	V_{DS}	40	V
Gate-source Voltage	V_{GS}	± 20	V
Drain Current	I_D	$T_C=25^\circ C$	40
		$T_C=100^\circ C$	25
Pulsed Drain Current ^A	I_{DM}	160	A
Total Power Dissipation	P_D	$T_C=25^\circ C$	27.8
		$T_C=100^\circ C$	13
Single Pulse Avalanche Energy ^B	E_{AS}	42	mJ
Thermal Resistance Junction-to-Case ^C	$R_{\theta JC}$	3.75	$^\circ C/W$
Junction and Storage Temperature Range	T_J, T_{STG}	-55~+150	$^\circ C$