



SOP-8 Plastic-Encapsulate MOSFETS **4616**

N and P-Channel Enhancement Mode Power MOSFET

Description

The 4616 uses advanced trench technology to provide excellent $R_{DS(ON)}$ and low gate charge. The complementary MOSFETs may be used to form a level shifted high side switch, and for a host of other applications.

General Features

● N-Channel

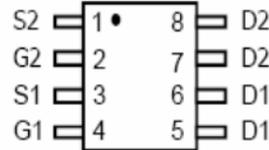
$V_{DS} = 30V, I_D = 8.0A$
 $R_{DS(ON)} < 19m\Omega @ V_{GS}=10V$
 $R_{DS(ON)} < 25m\Omega @ V_{GS}=4.5V$

● P-Channel

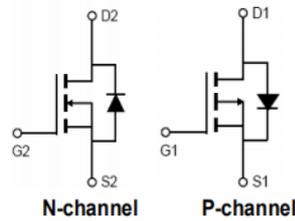
$V_{DS} = -30V, I_D = -7.0A$
 $R_{DS(ON)} < 29m\Omega @ V_{GS}=-10V$
 $R_{DS(ON)} < 38m\Omega @ V_{GS}=-4.5V$

- High power and current handing capability
- Lead free product is acquired
- Surface mount package

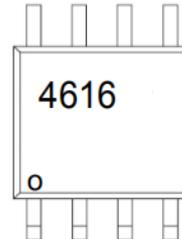
SOP-8



Equivalent Circuit



MARKING



Y :year code W :week code

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

Parameter	Symbol	N-Channel	P-Channel	Unit
Drain-Source Voltage	V_{DS}	30	-30	V
Gate-Source Voltage	V_{GS}	± 20	± 20	V
Continuous Drain Current	I_D	8.0	-7.0	A
Pulsed Drain Current ^(Note 1)	I_{DM}	30	-30	A
Maximum Power Dissipation	P_D	2.0	2.0	W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 150	-55 To 150	$^\circ C$

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient ^(Note 2)	$R_{\theta JA}$	N-Ch	62.5	$^\circ C/W$
Thermal Resistance, Junction-to-Ambient ^(Note 2)	$R_{\theta JA}$	P-Ch	62.5	$^\circ C/W$