

### General Description

The MY3D025C is the highest performance trench N-ch MOSFETs with extreme high cell density, which provide excellent  $R_{DS(ON)}$  and gate charge for most of the small power switching and load switch applications.

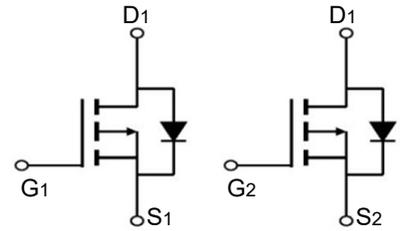
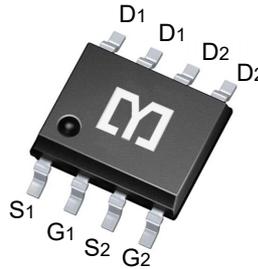


### Features

$V_{DSS}$	-25	V
$I_D$	-3	A
$R_{DS(ON)}$ (at $V_{GS}=4.5V$ )	<62	m $\Omega$
$R_{DS(ON)}$ (at $V_{GS}=2.5V$ )	<88	m $\Omega$

### Application

- Battery protection
- Load switch
- Uninterruptible power supply



### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MY3D025C	SOP-8	N/A	3000

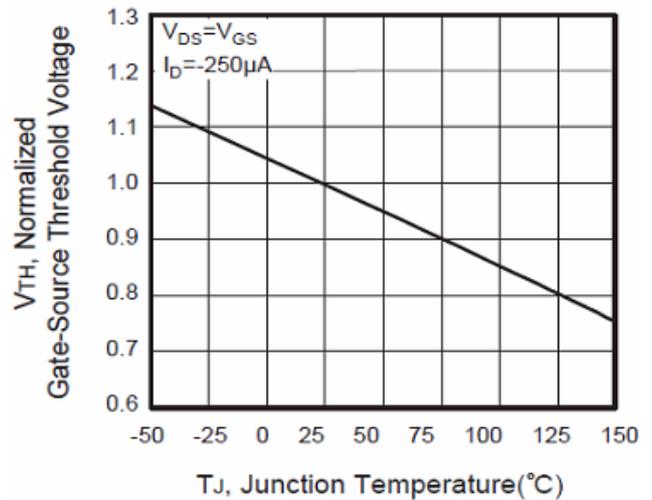
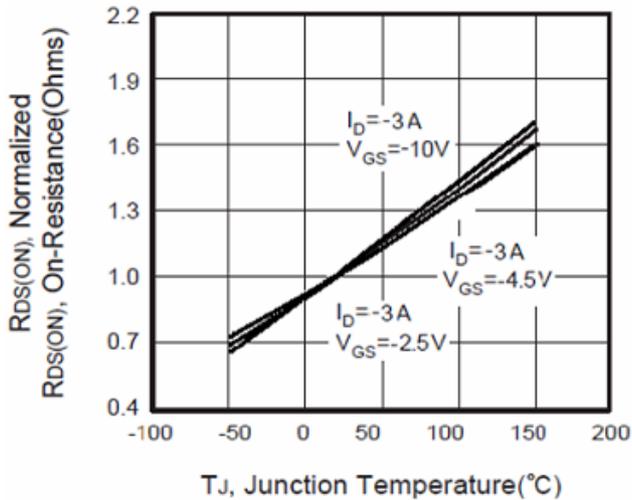
### Absolute Maximum Ratings ( $T_C=25^\circ C$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	$V_{DS}$	-25	V
Gate-Source Voltage	$V_{GS}$	$\pm 12$	V
Drain Current-Continuous	$I_D$	-3	A
Drain Current-Pulsed (Note 1)	$I_{DM}$	-1	A
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 To 150	$^\circ C$

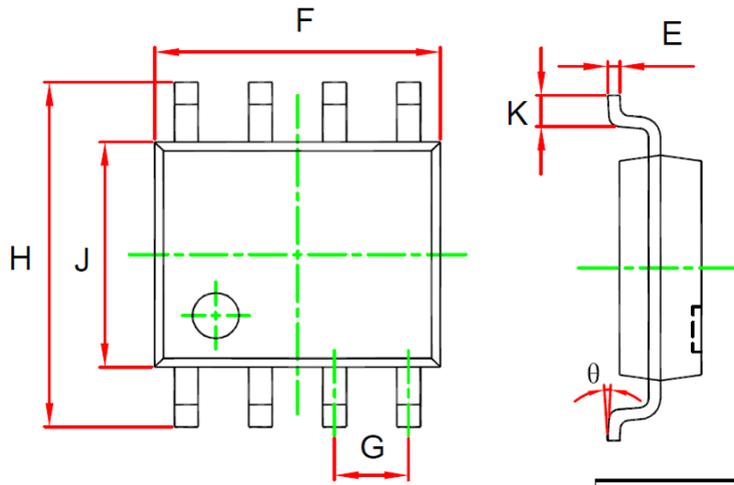
**Electrical Characteristics ( $T_A=25\text{ }^\circ\text{C}$ , unless otherwise noted)**

Parameter	Symbol	Condition	Min	Typ	Max	Unit
<b>Off Characteristics</b>						
Drain-Source Breakdown Voltage	$B_{VDSS}$	$V_{GS} = 0V, I_D = -250\mu A$	-25	--	-23	V
Static Drain-Source On-Resistance <sup>2</sup>	$R_{DS(on)}$	$V_{GS} = -4.5V, I_D = -3A$	--	62.0	90.0	m $\Omega$
	$R_{DS(on)}$	$V_{GS} = -2.5V, I_D = -3A$	--	88.0	120.0	
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = -250\mu A$	-0.4	-0.7	-1	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = -25V, V_{GS} = 0V, T_J=25^\circ\text{C}$	--	--	1	$\mu A$
Gate-Body Leakage Current	$I_{GSS}$	$V_{GS} = \pm 12V$	--	--	$\pm 100$	$\mu A$
Drain Current-Continuous	$I_D$				-3	A

**Typical Electrical and Thermal Characteristics**



**Package Mechanical Data-SOP-8**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.053	0.069	1.350	1.750	
B	0.004	0.010	0.100	0.250	
C	0.053	0.061	1.350	1.550	
D	0.013	0.020	0.330	0.510	
E	0.007	0.010	0.170	0.250	
F	0.189	0.197	4.800	5.000	
G	0.050 (BSC)		1.270 (BSC)		
H	0.228	0.244	5.800	6.200	
J	0.150	0.157	3.800	4.000	
K	0.016	0.050	0.400	1.270	
θ	0°	8°	0°	8°	