



**General Description**

- Trench Power MV MOSFET Technology
- DFN5x6 Top Exposed
- Low  $R_{DS(ON)}$
- Low Gate Charge
- RoHS 2.0 and Halogen-Free Compliant

**Applications**

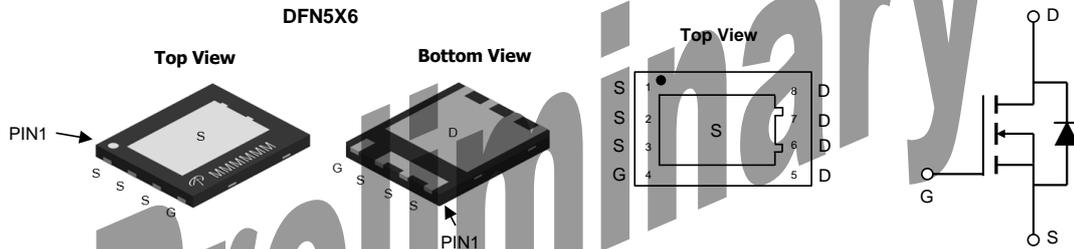
- High-frequency Switching FET

**Product Summary**

$V_{DS}$	60V
$I_D$ (at $V_{GS}=10V$ )	264A
$R_{DS(ON)}$ (at $V_{GS}=10V$ )	< 1.35m $\Omega$
$R_{DS(ON)}$ (at $V_{GS}=8V$ )	< 1.5m $\Omega$

100% UIS Tested  
100% Rg Tested

Max Tj=175°C



Orderable Part Number	Package Type	Form	Minimum Order Quantity
AONA66642	DFN 5x6	Tape & Reel	5000

**Absolute Maximum Ratings  $T_A=25^\circ\text{C}$  unless otherwise noted**

Parameter	Symbol	Maximum	Units
Drain-Source Voltage	$V_{DS}$	60	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_D$	$T_C=25^\circ\text{C}$	264
		$T_C=100^\circ\text{C}$	186
Pulsed Drain Current <sup>C</sup>	$I_{DM}$	1056	A
Continuous Drain Current	$I_{DSM}$	$T_A=25^\circ\text{C}$	49
		$T_A=70^\circ\text{C}$	41
Avalanche Current <sup>C</sup>	$I_{AS}$	67	A
Avalanche energy	$E_{AS}$	673	mJ
Power Dissipation <sup>B</sup>	$P_D$	$T_C=25^\circ\text{C}$	214
		$T_C=100^\circ\text{C}$	107
Power Dissipation <sup>A</sup>	$P_{DSM}$	$T_A=25^\circ\text{C}$	7.5
		$T_A=70^\circ\text{C}$	5.2
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 175	°C

**Thermal Characteristics**

Parameter	Symbol	Typ	Max	Units
Maximum Junction-to-Ambient <sup>A</sup>	$R_{\theta JA}$	15	20	°C/W
Maximum Junction-to-Ambient <sup>A,D</sup>		Steady-State	40	50
Maximum Junction-to-Case, bottom	$R_{\theta JC}$	0.4	0.75	°C/W
Maximum Junction-to-Case, top	$R_{\theta JC}$	0.35	0.7	°C/W