

AO4402

**N-Channel Enhancement Mode Field Effect Transistor**

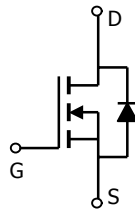
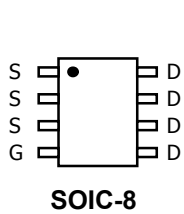
**Features**

$V_{DS} (V) = 20V$

$I_D = 12A$

$R_{DS(ON)} < 12m\Omega (V_{GS} = 4.5V)$

$R_{DS(ON)} < 15m\Omega (V_{GS} = 2.5V)$



Absolute Maximum Ratings $T_A=25^\circ C$ unless otherwise noted				
Parameter	Symbol	Maximum	Units	
Drain-Source Voltage	$V_{DS}$	20	V	
Gate-Source Voltage	$V_{GS}$	$\pm 12$	V	
Continuous Drain Current <sup>A</sup>	$T_A=25^\circ C$	$I_D$	A	
Pulsed Drain Current <sup>B</sup>				$I_{DM}$
Power Dissipation	$T_A=25^\circ C$	$P_D$	3	W
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	$^\circ C$	

Thermal Characteristics					
Parameter		Symbol	Typ	Max	Units
Maximum Junction-to-Ambient <sup>A</sup>	$t \leq 10s$	$R_{\theta JA}$	23	40	$^\circ C/W$
Maximum Junction-to-Ambient <sup>A</sup>	Steady-State		48	65	$^\circ C/W$
Maximum Junction-to-Lead <sup>C</sup>	Steady-State	$R_{\theta JL}$	12	16	$^\circ C/W$