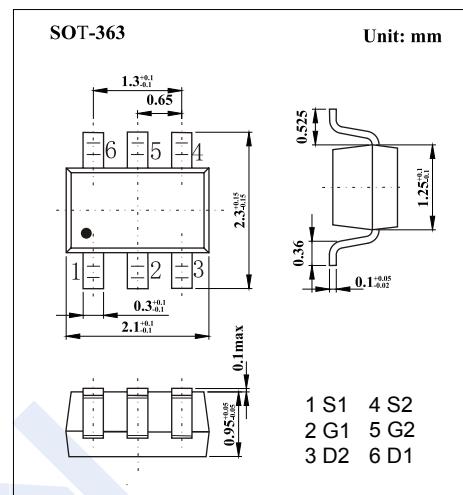
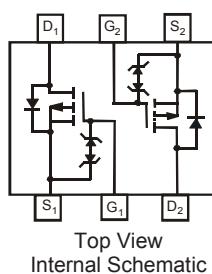


Dual P-channel MOSFET

DMP2004DWK

■ Features

- V_{DS} (V) = -20V
- I_D = -540mA
- $R_{DS(on)}(max)$ = 0.55Ω @ V_{GS} = 4.5V
- Dual P-Channel MOSFET
- Low On-Resistance
- ESD Protected

■ Absolute Maximum Ratings (T_A = 25°C Unless otherwise noted)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-20	V
Gate-Source Voltage	V_{GS}	±8	
Continuous Drain Current	I_D	-430	mA
		-310	
Power Dissipation	P_D	250	mW
Thermal Resistance, Junction- to-Ambient	R_{JA}	500	°C/W
Junction Temperature	T_J	150	°C
Junction Storage Temperature Range	T_{STG}	-55 to 150	

■ Electrical Characteristics (T_A = 25°C Unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D=-250\mu A$, $V_{GS}=0V$	-20			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-20V$, $V_{GS}=0V$			-1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{DS}=0V$, $V_{GS}=\pm 4.5V$			±1	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$, $I_D=-250\mu A$	-0.5		-1.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=-4.5V$, $I_D=-430mA$			0.9	Ω
		$V_{GS}=-2.5V$, $I_D=-300mA$			1.4	
		$V_{GS}=-1.8V$, $I_D=-150mA$			2.0	
Forward Transconductance	g_{FS}	$V_{DS}=-10V$, $I_D=-0.2A$	200			mS
Input Capacitance	C_{iss}	$V_{GS}=0V$, $V_{DS}=-16V$, $f=1MHz$			175	pF
Output Capacitance	C_{oss}				30	
Reverse Transfer Capacitance	C_{rss}				20	
Diode Forward Voltage	V_{SD}	$I_{SD}=-115mA$, $V_{GS}=0V$			-1.2	V

Dual P-channel MOSFET

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■ Typical Characteristics

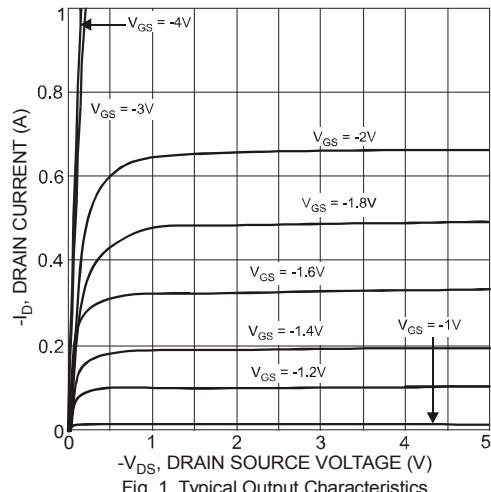


Fig. 1 Typical Output Characteristics

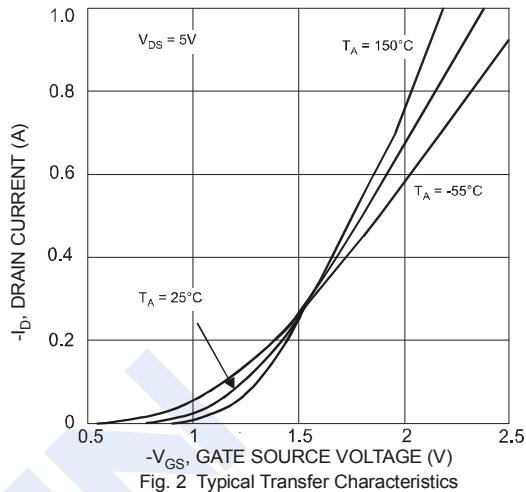


Fig. 2 Typical Transfer Characteristics

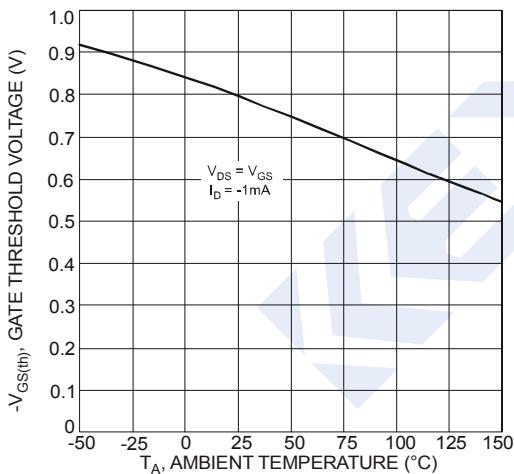


Fig. 3 Gate Threshold Voltage vs. Ambient Temperature

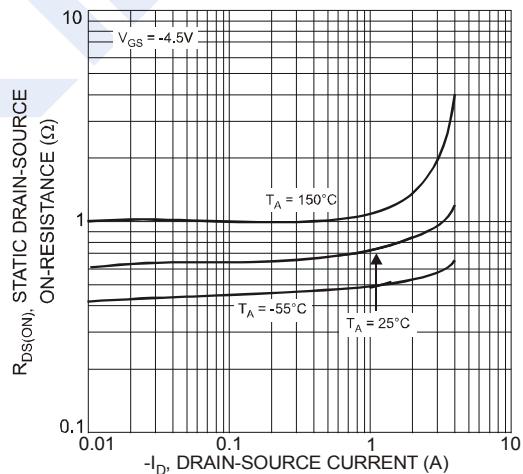


Fig. 4 Static Drain-Source On-Resistance vs. Drain Current

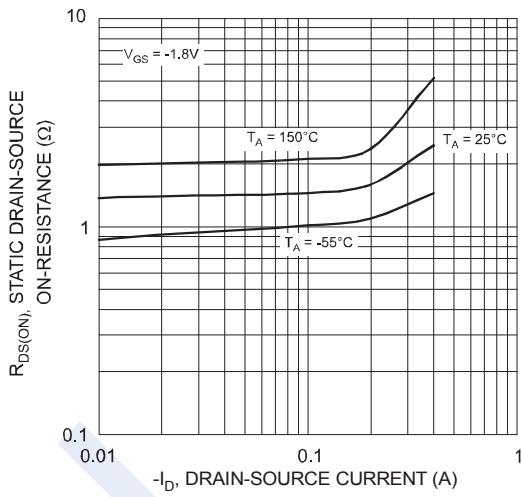


Fig. 5 Static Drain-Source On-Resistance vs. Drain Current

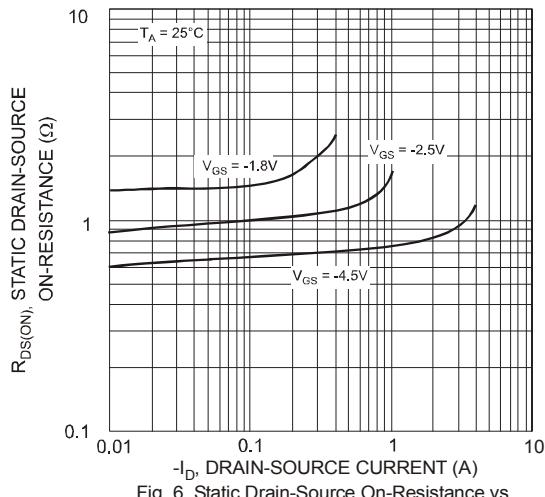


Fig. 6 Static Drain-Source On-Resistance vs. Drain-Source Current vs. Gate Source Voltage

Dual P-channel MOSFET

DMP2004DWK

