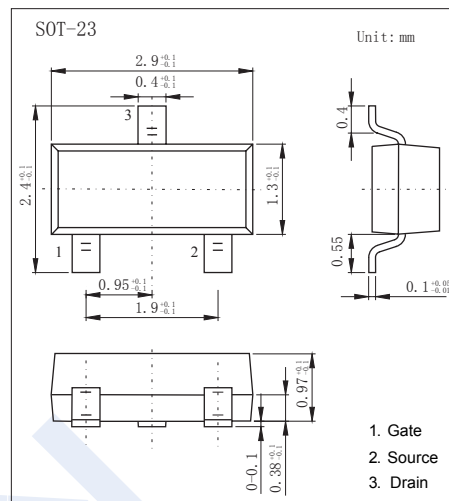
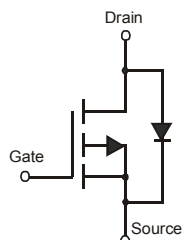


P-Channel MOSFET

DMP1260 (KMP1260)

■ Features

- $V_{DS} = -20V$
- $I_D = -3.3 A$
- $R_{DS(ON)} < 75m\Omega$ ($V_{GS} = -4.5V$)
- $R_{DS(ON)} < 140m\Omega$ ($V_{GS} = -2.5V$)



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-20	V
Gate-Source Voltage	V_{GS}	± 12	
Continuous Drain Current	I_D	-3.3	A
		-2.6	
Pulsed Drain Current	I_{DM}	-13	
Power Dissipation	P_D	1.4	W
Thermal Resistance Junction- to-Ambient	R_{thJA}	90	$^\circ C/W$
Junction Temperature	T_J	150	$^\circ C$
Junction Storage Temperature Range	T_{stg}	-55 to 150	

P-Channel MOSFET

DMP1260 (KMP1260)

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DS}	$I_D = -250 \mu A$, $V_{GS} = 0V$	-20			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -16V$, $V_{GS} = 0V$			-1	μA
Gate-Body leakage current	I_{GSS}	$V_{DS} = 0V$, $V_{GS} = \pm 8V$			± 100	nA
		$V_{DS} = 0V$, $V_{GS} = \pm 12V$			± 800	
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}$, $I_D = -250 \mu A$	-0.4		-0.9	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = -4.5V$, $I_D = -1.5A$			75	m Ω
		$V_{GS} = -2.5V$, $I_D = -1.2A$			96	
		$V_{GS} = -1.8V$, $I_D = -1.2A$			140	
Forward Transconductance	g_{FS}	$V_{DS} = -10V$, $I_D = -1.5A$		7		S
Input Capacitance	C_{iss}	$V_{GS} = 0V$, $V_{DS} = -10V$, $f = 1MHz$		627		pF
Output Capacitance	C_{oss}			64		
Reverse Transfer Capacitance	C_{rss}			53		
Gate resistance	R_g	$V_{GS} = 0V$, $V_{DS} = 0V$, $f = 1MHz$		44.9		Ω
Total Gate Charge	Q_g	$V_{GS} = -4.5V$, $V_{DS} = -10V$, $I_D = -3A$		6.5		nC
Gate Source Charge	Q_{gs}			0.9		
Gate Drain Charge	Q_{gd}			1.5		
Turn-On DelayTime	$t_{d(on)}$	$V_{DS} = -10V$, $V_{GS} = -4.5V$, $R_L = 10\Omega$, $R_G = 1\Omega$, $I_D = -1A$		12.5		ns
Turn-On Rise Time	t_r			10.3		
Turn-Off DelayTime	$t_{d(off)}$			46.5		
Turn-Off Fall Time	t_f			22.2		
Maximum Body-Diode Continuous Current	I_S				-1	A
Diode Forward Voltage	V_{SD}	$I_S = -1A$, $V_{GS} = 0V$			-1	V

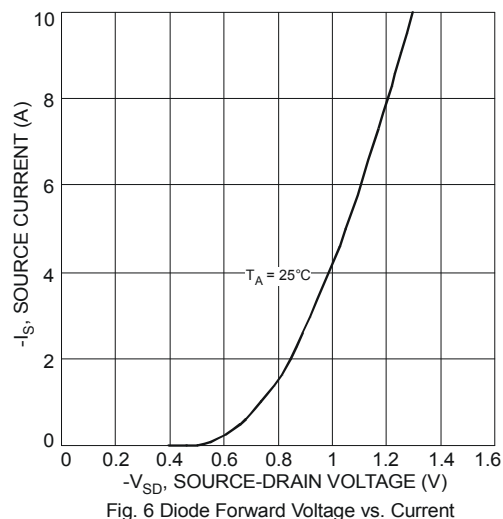
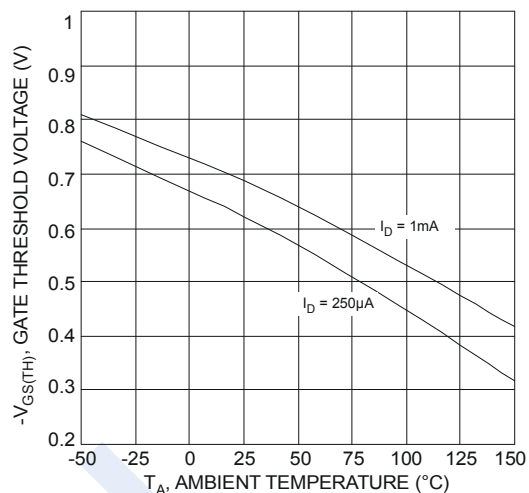
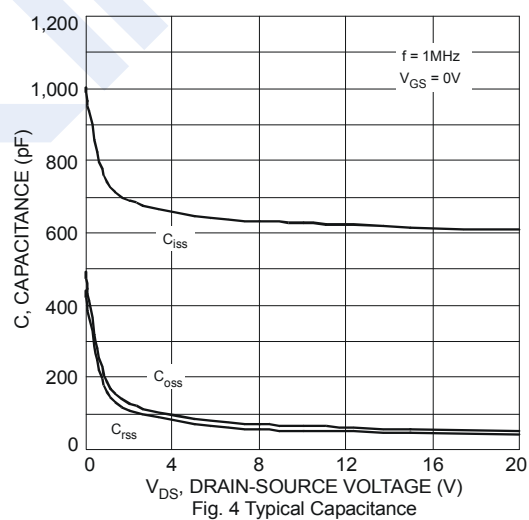
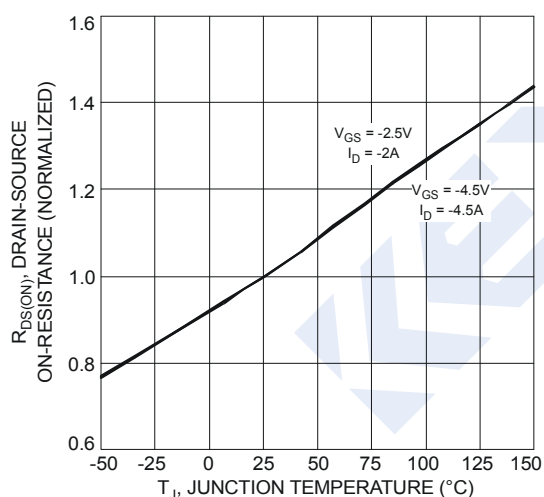
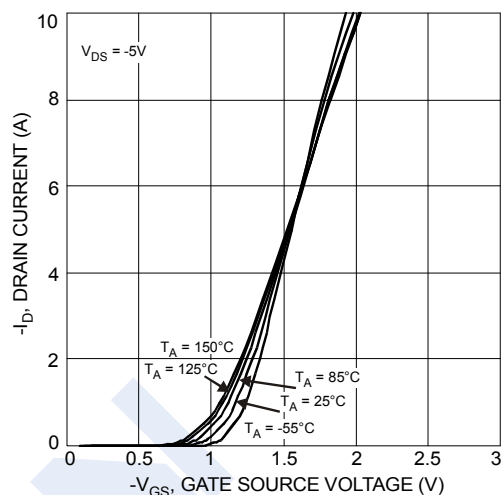
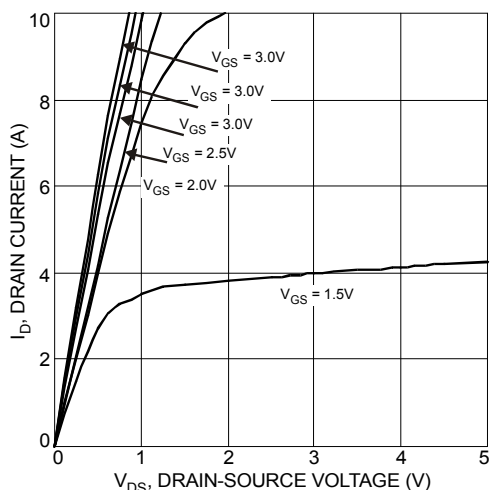
■ Marking

Marking	DMF
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P-Channel MOSFET

DMP1260 (KMP1260)

■ Typical Characteristics



P-Channel MOSFET

DMP1260 (KMP1260)

■ Typical Characteristics

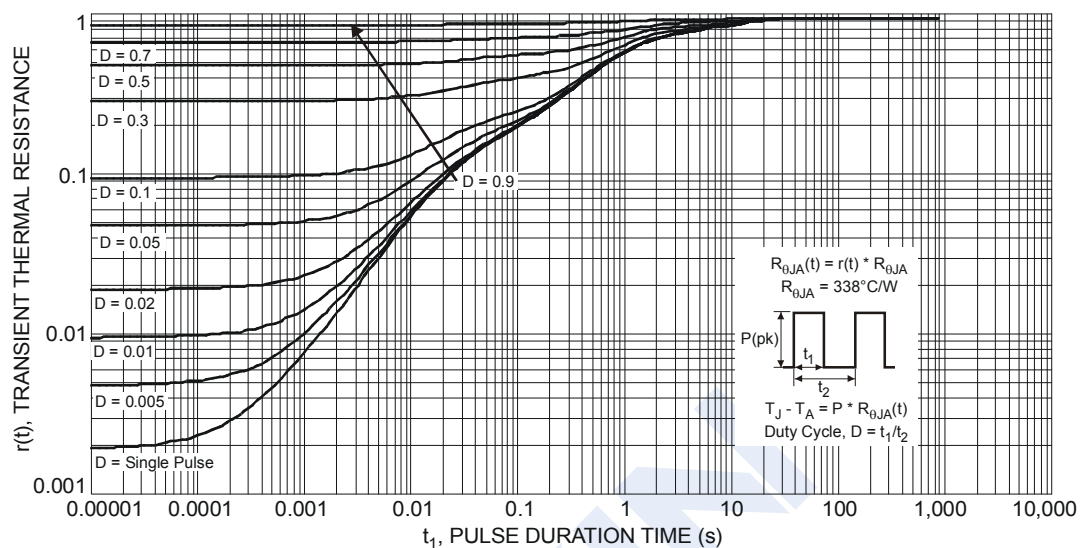


Fig. 7 Transient Thermal Response