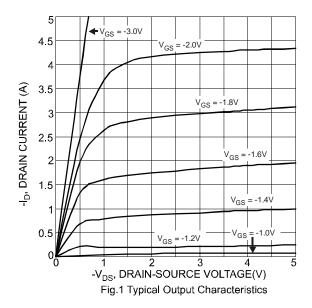


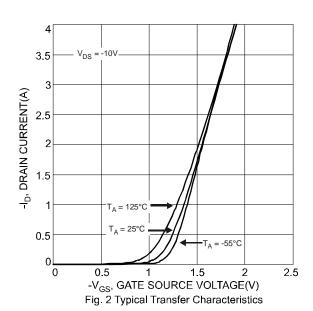
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 4)							
Drain-Source Breakdown Voltage		BV _{DSS}	-20			V	$V_{GS} = 0V, I_D = -250\mu A$
Zero Gate Voltage Drain Current	$T_J = 25$ °C $T_J = 125$ °C	I _{DSS}	_		-1.0 -5.0	μΑ	V _{DS} = -20V, V _{GS} = 0V
Gate-Source Leakage		I _{GSS}	_		±100	nA	$V_{GS} = \pm 12V, V_{DS} = 0V$
ON CHARACTERISTICS (Note 4)							
Gate Threshold Voltage		$V_{GS(th)}$	-0.45	_	-1.0	V	$V_{DS} = V_{GS}$, $I_D = -250\mu A$
Static Drain-Source On-Resistance		R _{DS (ON)}	_	92 134 180	150 200 240	mΩ	$V_{GS} = -4.5V, I_D = -2.0A$ $V_{GS} = -2.5V, I_D = -1.5A$ $V_{GS} = -1.8V, I_D = -0.5A$
Forward Transconductance		g FS	_	3.1		S	$V_{DS} = -10V, I_{D} = -810mA$
Diode Forward Voltage (Note 4)		V_{SD}	_	_	-0.9	V	$V_{GS} = 0V, I_S = -0.5A$
DYNAMIC CHARACTERISTICS							
Input Capacitance		C _{iss}	_	320	_	pF	10/1/
Output Capacitance		Coss	_	80		pF	V _{DS} = -16V, V _{GS} = 0V f = 1.0MHz
Reverse Transfer Capacitance		C _{rss}	_	60		pF	1 = 1.000112
Turn-On Delay Time		t _{D(on)}	_	11.51		ns	
Turn-On Rise Time		t _r	_	12.09		ns	V _{DS} = -10V, V _{GS} = -4.5V
Turn-Off Delay Time	t _{D(off)}	_	55.34	_	ns	$R_G = 6\Omega$, $R_L = 10\Omega$	
Turn-Off Fall Time		t _f	_	27.54	_	ns	

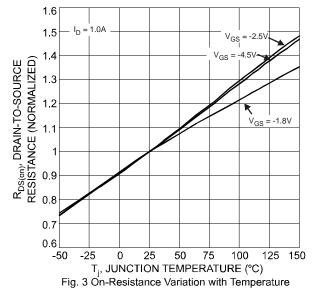
Notes:

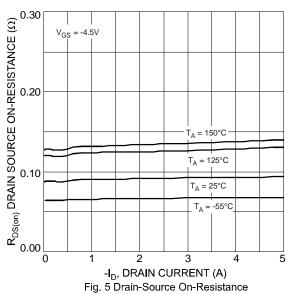
4. Short duration pulse test used to minimize self-heating effect.

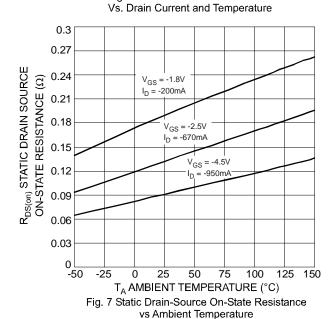












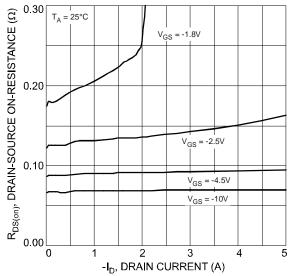
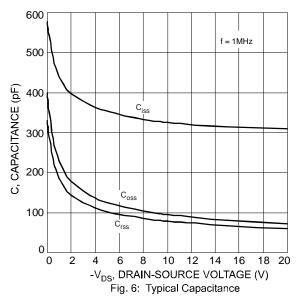
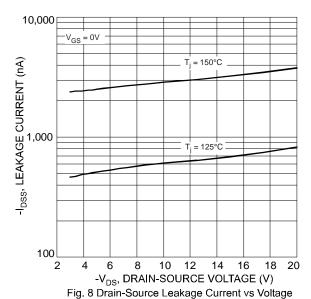


Fig. 4 On-Resistance vs Drain Current and Gate Voltage







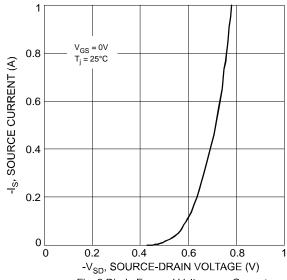


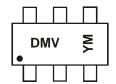
Fig. 9 Diode Forward Voltage vs. Current

Ordering Information (Note 5)

Part Number	Case	Packaging
DMP2240UDM-7	SOT-26	3000/Tape & Reel

Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

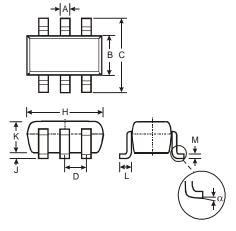


DMV = Marking Code YM = Date Code Marking Y = Year (ex: U = 2007) M = Month (ex: 9 = September)

Date Code Key

Year	20	07	2008		2009		2010		2011		2012	
Code	Į	J	V		V	V	X		Y		Z	
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

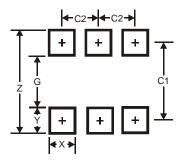
Package Outline Dimensions



	SOT-26							
Dim	Min	Max	Тур					
Α	0.35	0.50	0.38					
В	1.50	1.70	1.60					
С	2.70	3.00	2.80					
D		_	0.95					
Н	2.90	3.10	3.00					
7	0.013	0.10	0.05					
K	1.00	1.30	1.10					
L	0.35	0.55	0.40					
M	0.10	0.20	0.15					
α	0°	8°						
All Dimensions in mm								



Suggested Pad Layout



Dimensions	Value (in mm)
Z	3.20
G	1.60
Х	0.55
Υ	0.80
C1	2.40
C2	0.95

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