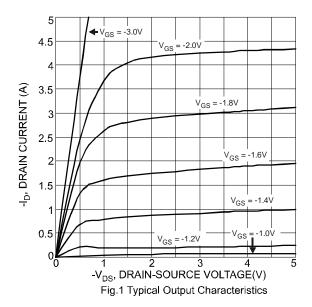
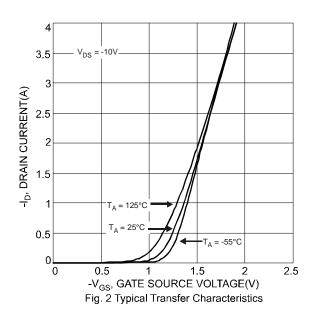


Electrical Characteristics @TA = 25°C unless otherwise specified

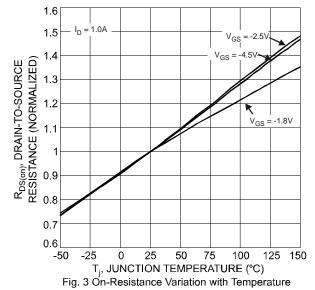
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition		
OFF CHARACTERISTICS (Note 4)								
Drain-Source Breakdown Voltage	BV _{DSS}	-20	_	_	V	$V_{GS} = 0V, I_D = -250\mu A$		
Zero Gate Voltage Drain Current	$T_J = 25$ °C $T_J = 125$ °C	I _{DSS}	_	_	-1.0 -5.0	μΑ	V _{DS} = -20V, V _{GS} = 0V	
Gate-Source 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	$V_{DS} = V_{GS}$, $I_D = -250 \mu A$	
				92 134 180	150 200 240	mΩ	$V_{GS} = -4.5V, I_D = -2.0A$	
Static Drain-Source On-Resistance		R _{DS (ON)}	_				$V_{GS} = -2.5V, I_D = -1.5A$	
							$V_{GS} = -1.8V, I_D = -0.5A$	
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	101/11/		
Output Capacitance	Coss	_	80	_	pF	$V_{DS} = -16V, V_{GS} = 0V$ - f = 1.0MHz		
Reverse Transfer Capacitance	C_{rss}	_	60	_	pF	1 = 1.01/11/12		
Turn-On Delay Time	t _{D(on)}	_	12.5	_	ns			
Turn-On Rise Time	t _r		10.3	_	ns	$V_{DS} = -10V, V_{GS} = -4.5V,$		
Turn-Off Delay Time	t _{D(off)}	_	46.5	_	ns	$R_L = 10\Omega$, $R_G = 1.0\Omega$		
Turn-Off Fall Time	t _f		22.2	_	ns	7		

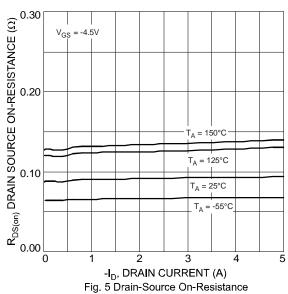
Notes: 4. Short duration pulse test used to minimize self-heating effect.

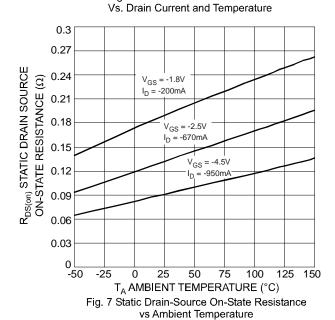












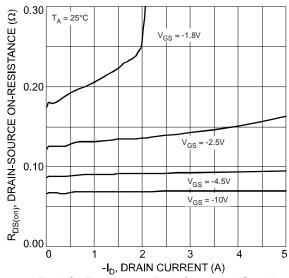
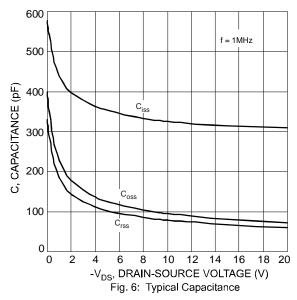
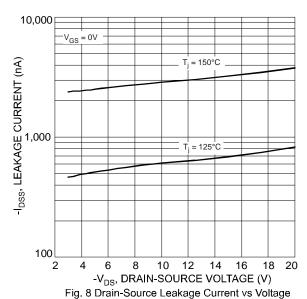
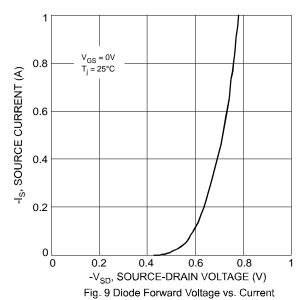


Fig. 4 On-Resistance vs Drain Current and Gate Voltage







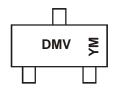


Ordering Information (Note 5)

Ī	Part Number	Case	Packaging
	DMP2240UW-7	SOT-323	3000/Tape & Reel

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

Marking Information



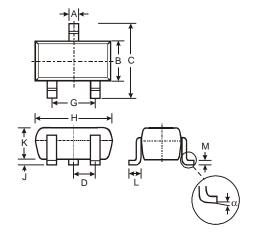
DMV = Product Type Marking Code YM = Date Code Marking Y = Year (ex: V = 2008)

M = Month (ex: 9 = September)

Date Code Key

Year	2008		2009	2010		2011	2012		2	2013	2014		2015
Code	V		W	Х		Υ	Z			Α	В		С
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Au	ıg	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	3	9	0	Ν	D

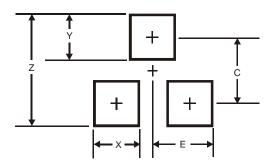
Package Outline Dimensions



	SOT-323						
Dim	Min	Max	Тур				
Α	0.25	0.40	0.30				
В	1.15	1.35	1.30				
С	2.00	2.20	2.10				
D	-	-	0.65				
G	1.20	1.40	1.30				
Н	1.80	2.20	2.15				
J	0.0	0.10	0.05				
K	0.90	1.00	1.00				
L	0.25	0.40	0.30				
M	0.10	0.18	0.11				
α	0°	8°	-				
All	All Dimensions in mm						



Suggested Pad Layout



Dimensions	Value (in mm)
Z	2.8
Х	0.7
Y	0.9
С	1.9
E	1.0

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 - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
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