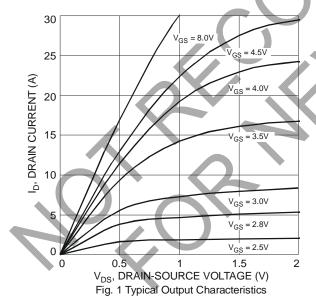


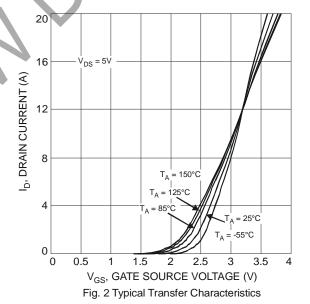
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
OFF CHARACTERISTICS (Note 5)							
Drain-Source Breakdown Voltage	BV _{DSS}	30	-	-	V	$V_{GS} = 0V, I_D = 250\mu A$	
Zero Gate Voltage Drain Current T _J = 25°C	I _{DSS}	-	-	1.0	μ A	$V_{DS} = 30V$, $V_{GS} = 0V$	
Gate-Source Leakage	I _{GSS}	-	-	±100	nA	$V_{GS} = \pm 20V, V_{DS} = 0V$	
ON CHARACTERISTICS (Note 5)							
Gate Threshold Voltage	$V_{GS(th)}$	1.0	1.5	2.0	V	$V_{DS} = V_{GS}$, $I_D = 250\mu A$	
Static Drain-Source On-Resistance	D-2 (21)		22	27	mΩ	$V_{GS} = 10V$, $I_D = 7A$	
Static Drain-Source On-Resistance	R _{DS} (ON)	_	32	40	11177	$V_{GS} = 4.5V$, $I_D = 5.6A$	
Forward Transfer Admittance	Y _{fs}	-	10	-	S	$V_{DS} = 5V, I_{D} = 7A$	
Diode Forward Voltage	V_{SD}	-	0.75	1.0	V	$V_{GS} = 0V, I_{S} = 1A$	
DYNAMIC CHARACTERISTICS (Note 6)							
Input Capacitance	C _{iss}	-	404	-	pF	45)/)/ 0)/	
Output Capacitance	Coss	-	52		ρ	$V_{DS} = 15V, V_{GS} = 0V,$ f = 1.0MHz	
Reverse Transfer Capacitance	C _{rss}	-	45	-	рF	1 = 1:0WHZ	
Gate Resistance	Rg	-	1.51	-	Ω	$V_{DS} = 0V$, $V_{GS} = 0V$, $f = 1MHz$	
Total Gate Charge	Q_{g}	-	9.2	7	nC		
Gate-Source Charge	Q_{gs}	-	1.2	-	nC /	$V_{GS} = 10V$, $V_{DS} = 15V$, ID =5.8A	
Gate-Drain Charge	Q_{gd}		1.8		nC		
Turn-On Delay Time	t _{D(on)}	-	3.41	-	ns		
Turn-On Rise Time	t _r	- //	6.18	- /	ns	$V_{DD} = 15V, V_{GS} = 10V,$	
Turn-Off Delay Time	t _{D(off)}		13.92	- (ns	$R_L = 2.6\Omega$, $R_G = 3\Omega$	
Turn-Off Fall Time	t _f	1	2.84	/ -	ns		

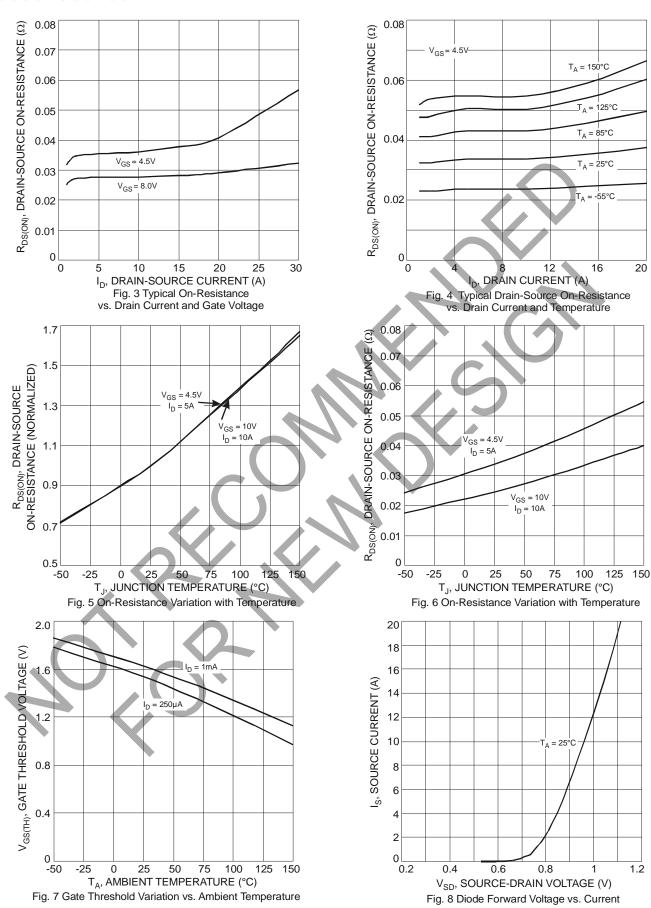
Notes:

- 5. Short duration pulse test used to minimize self-heating effect.
- 6. Guaranteed by design. Not subject to production testing.

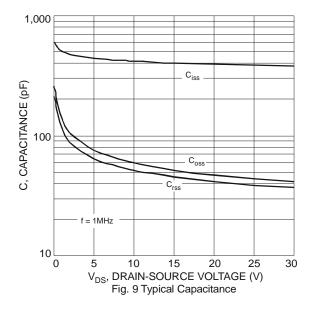


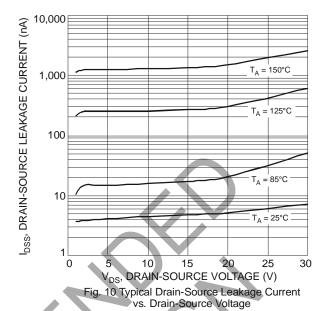


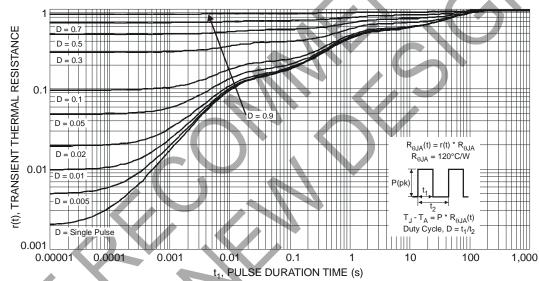












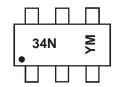
Ordering Information (Note 7)

Part Number	Case	Packaging
DMG6402LDM-7	SOT-26	3000/Tape & Reel

Fig. 11 Transient Thermal Response

Notes: 7. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



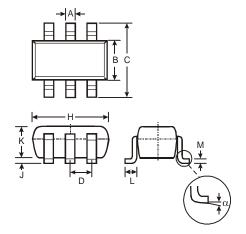
34N= Product Type Marking Code YM = Date Code Marking Y = Year (ex: V = 2008) M = Month (ex: 9 = September)

Date Code Key

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

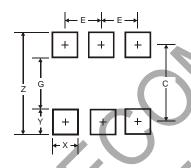


Package Outline Dimensions



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				
J	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
Y	0.80
С	2.40
Е	0.95



DMG6402LDM



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