

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Units
Drain-Source Voltage	V _{DSS}	-20	V
Gate-Source Voltage	V _{GSS}	±8	V
Drain Current (Note 5)	ID	-400	mA
Pulsed Drain Current	I _{DM}	-1.4	А

Thermal Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Units
Total Power Dissipation (Note 5)	Pd	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	R _{0JA}	500	°C/W
Operating and Storage Temperature Range	T _{j,} T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

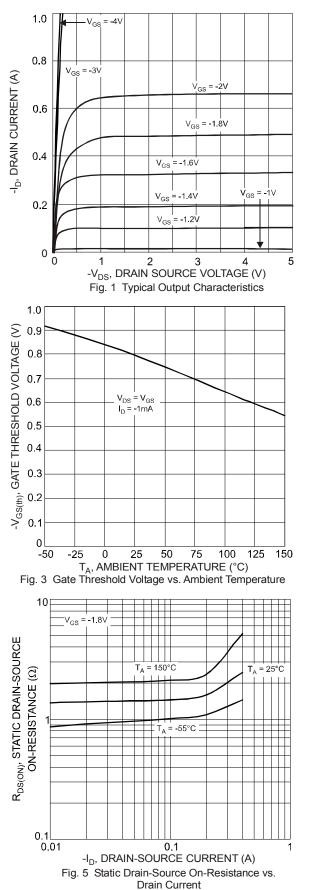
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
OFF CHARACTERISTICS (Note 6)							
Drain-Source Breakdown Voltage	BV _{DSS}	-20		_	V	V _{GS} = 0V, I _D = -250µA	
Zero Gate Voltage Drain Current	I _{DSS}	_	_	-1.0	μA	V _{DS} = -20V, V _{GS} = 0V	
Gate-Source Leakage	I _{GSS}	_	_	±1.0	μA	V_{GS} = ±4.5V, V_{DS} = 0V	
ON CHARACTERISTICS (Note 6)							
Gate Threshold Voltage	V _{GS(th)}	-0.5	_	-1.0	V	$V_{DS} = V_{GS}, I_D = -250 \mu A$	
		_	0.7 1.1 1.7	0.9 1.4 2.0	Ω	V _{GS} = -4.5V, I _D = -430mA	
Static Drain-Source On-Resistance	R _{DS(ON)}					V _{GS} = -2.5V, I _D = -300mA	
						V _{GS} = -1.8V, I _D = -150mA	
Forward Transfer Admittance	Y _{fs}	200			mS	V _{DS} =10V, I _D = -0.2A	
Diode Forward Voltage (Note 6)	V _{SD}	-0.5		-1.2	V	V _{GS} = 0V, I _S = -115mA	
DYNAMIC CHARACTERISTICS (Note 7)	·		•	•		<u>.</u>	
Input Capacitance	Ciss	_		175	pF	V _{DS} = -16V, V _{GS} = 0V f = 1.0MHz	
Output Capacitance	C _{oss}	_		30	pF		
Reverse Transfer Capacitance	C _{rss}	_	—	20	pF		

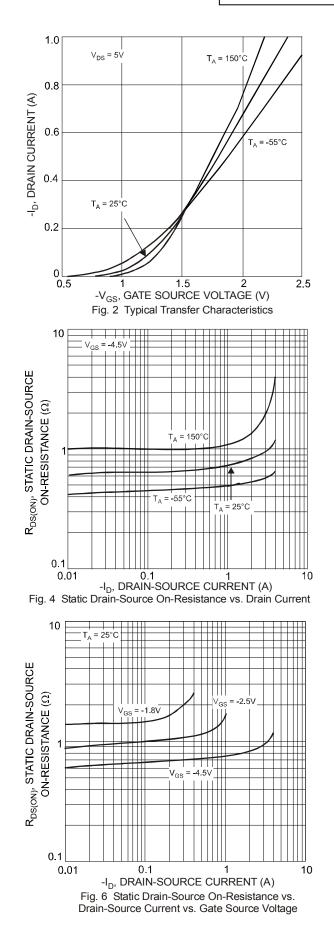
Notes:

Device mounted on FR-4 PCB.
Short duration pulse test used to minimize self-heating effect.
Guaranteed by design. Not subject to production testing.

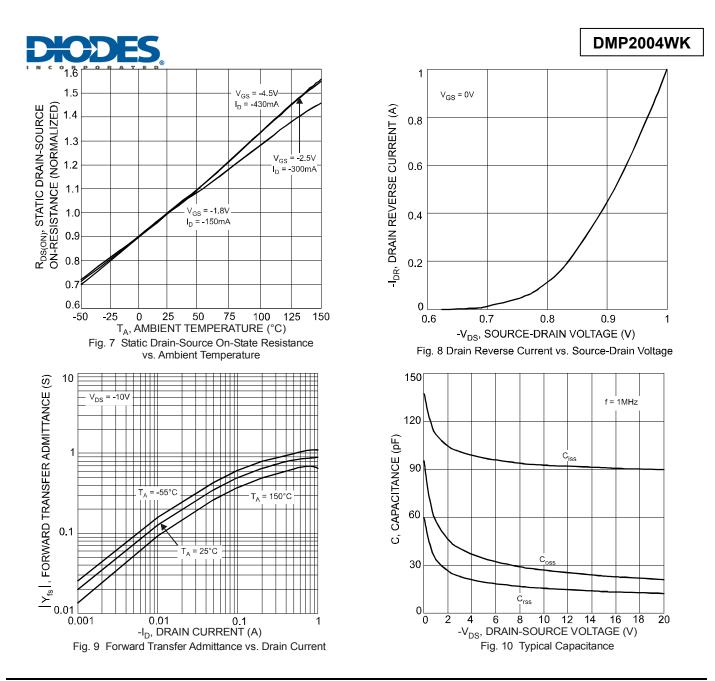
DMP2004WK





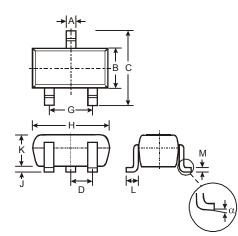


DMP2004WK Document number: DS30931 Rev. 6 - 2 Downloaded from Arrow.com.



Package Outline Dimensions

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

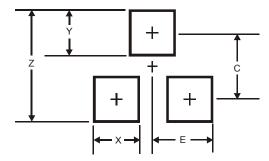


SOT323				
Dim	Min	Max	Тур	
Α	0.25	0.40	0.30	
в	1.15	1.35	1.30	
С	2.00	2.20	2.10	
D	-	-	0.65	
G	1.20	1.40	1.30	
Η	1.80	2.20	2.15	
J	0.0	0.10	0.05	
Κ	0.90	1.00	0.95	
L	0.25	0.40	0.30	
Μ	0.10	0.18	0.11	
α	0°	8°	-	
All Dimensions in mm				



Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



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

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