

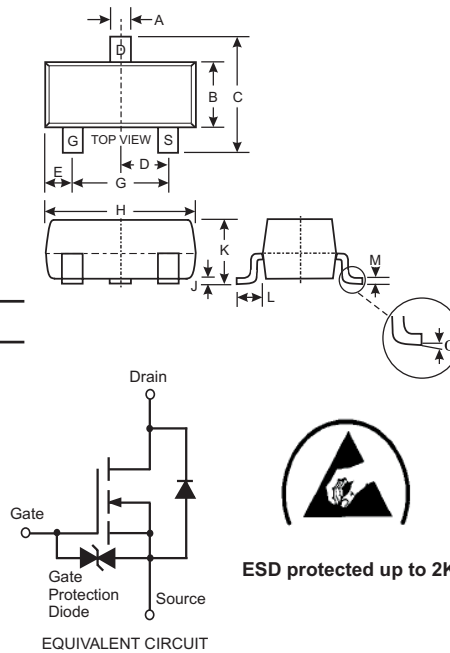
DMN2004K

Features

- Low On-Resistance: $R_{DS(ON)}$
- Low Gate Threshold Voltage
- Low Input Capacitance
- Fast Switching Speed
- Low Input/Output Leakage
- **Lead Free By Design/RoHS Compliant (Note 2)**
- **ESD Protected up to 2KV**
- "Green" Device (Note 4)
- **Qualified to AEC-Q101 standards for High Reliability**

Mechanical Data

- Case: SOT-23
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminals: Finish — Matte Tin annealed over Alloy 42 leadframe. Solderable per MIL-STD-202, Method 208
- Terminal Connections: See Diagram
- Weight: 0.008 grams (approximate)



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic		Symbol	Value	Units	
Drain-Source Voltage		V_{DSS}	20	V	
Gate-Source Voltage		V_{GSS}	± 8	V	
Drain Current (Note 1)	Steady State	I_D	$T_A = 25^\circ\text{C}$	540	mA
			$T_A = 85^\circ\text{C}$	390	
Pulsed Drain Current (Note 3)		I_{DM}	1.5	A	
Total Power Dissipation (Note 1)		P_d	350	mW	
Thermal Resistance, Junction to Ambient		$R_{\theta JA}$	357	$^\circ\text{C/W}$	
Operating and Storage Temperature Range		T_j, T_{STG}	-65 to +150	$^\circ\text{C}$	

- Note:
1. Device mounted on FR-4 PCB.
 2. No purposefully added lead.
 3. Pulse width $\leq 10\mu\text{s}$, Duty Cycle $\leq 1\%$.
 4. Detail go to our website at www.twtysemi.com