
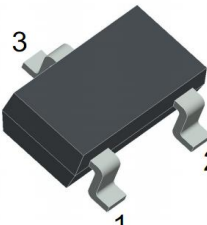
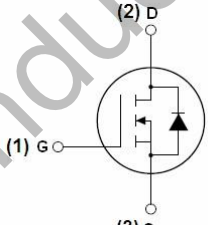
 <p style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">WG2310</p> <p>60V N-Channel MOSFET</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Low Intrinsic Capacitances.</li> <li><input type="checkbox"/> Excellent Switching Characteristics.</li> <li><input type="checkbox"/> Extended Safe Operating Area.</li> <li><input type="checkbox"/> Unrivalled Gate Charge :Qg= 6nC (Typ.).</li> <li><input type="checkbox"/> BVDSS=60V, I<sub>D</sub>=3A</li> <li><input type="checkbox"/> RDS(on) : 90mΩ (Max) @VG=10V</li> <li><input type="checkbox"/> 100% Avalanche Tested</li> </ul>	<p style="text-align: center;">SOT-23 </p> <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: left;"> <p><b>1.GATE</b></p> <p><b>2.SOURCE</b></p> <p><b>3.DRAIN</b></p> </div> </div> <div style="text-align: center; margin-top: 10px;">  </div> <p>Marking:MS10</p>
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**Maximum ratings ( Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Drain-Source Voltage	VDS	60	V
Gate-Source Voltage	VGS	±20	
Continuous Drain Current	ID	3	A
Pulsed Diode Curren	IDM	10	
Continuous Source-Drain Current(Diode Conduction)	IS	0.8	
Power Dissipation	PD	1.25	W
Thermal Resistance from Junction to Ambient (t≤5s)	RθJA	357	°C/W
Operating Junction	TJ	150	°C
Storage Temperature	TSTG	-55~+150	°C

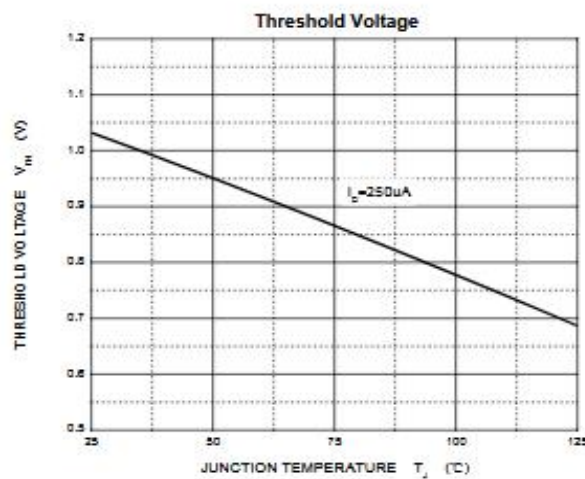
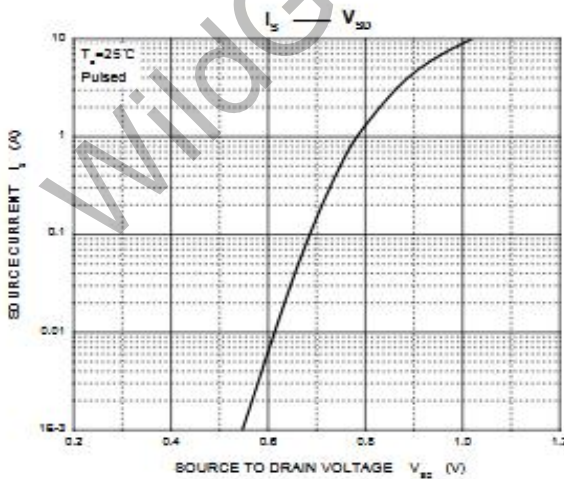
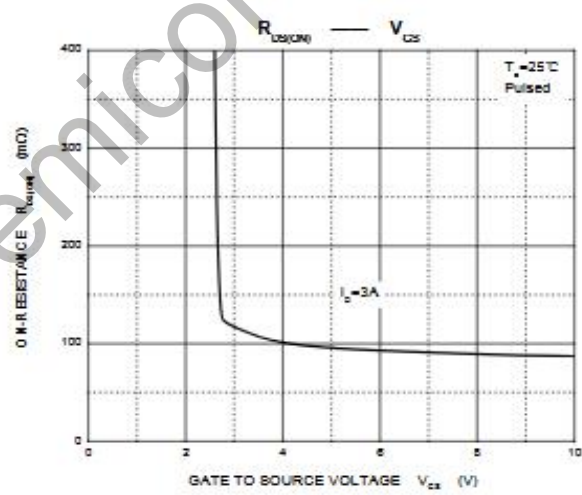
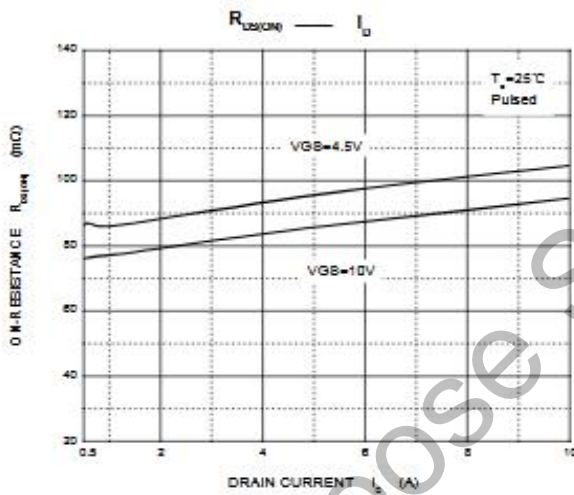
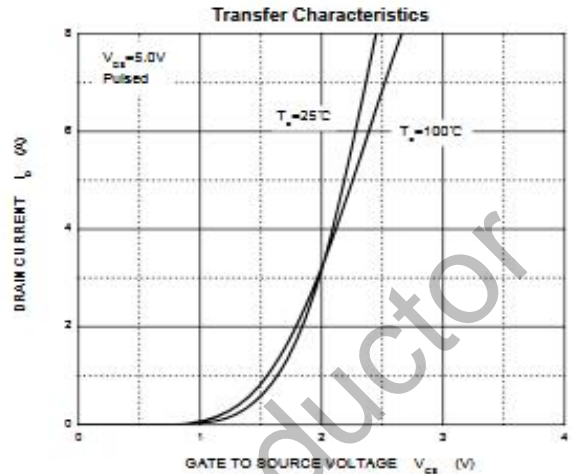
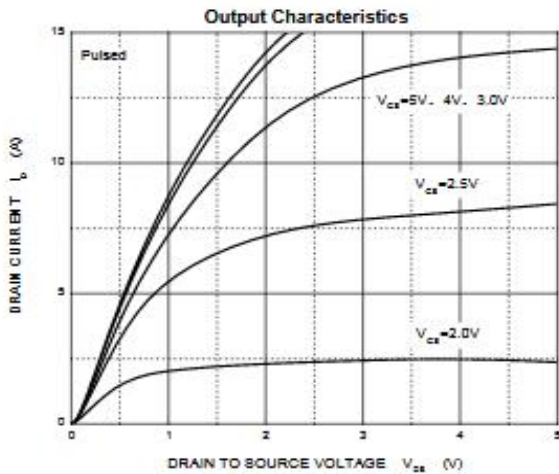
**Electrical Characteristics @T<sub>j</sub>=25°C(unless otherwise specified)**

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
<b>Static</b>						
Drain-source breakdown voltage	V(BR)DSS	VGS = 0V, ID = 250μA	60			V
Gate-source threshold voltage	VGS(th)	VDS =VGS, ID = 250μA	0.9		2	V
Gate-source leakage	IGSS	VDS =0V, VGS = ±20V			±100	nA
Zero gate voltage drain current	IDSS	VDS = 60V, VGS =0V			1	μA
Drain-source on-state resistancea	RDS(on)	VGS = 10V, ID = 3 A		72	95	mΩ
		VGS = 4.5V, ID = 2 A		82	100	mΩ
Forward transconductancea	gfs	VDS = 4.5V, ID = 3A		7		S
Diode forward voltage	VSD	IS=1A,VGS=0V		0.8	1.2	V
<b>Dynamic</b>						
Input capacitance	Ciss	VDS = 10V,VGS =0V, f=1MHz		247		pF
Output capacitance	Coss			34		pF
Reverse transfer capacitanceb	Crss			20		pF
Total gate charge	Qg	VDS = 10V,VGS = 4.5V, ID = 3A		6	4.5	nC
Gate-source charge	Qgs			1		nC
Gate-drain charge	Qgd			1.3		nC
Gate resistance	Rg	f=1MHz		5		Ω
<b>Switchingb</b>						
Turn-on delay time	td(on)	VDD= 10V RL=10Ω, ID ≈ 1A, VGEN= 4.5V,Rg=6Ω		7	15	ns
Rise time	tr			15	20	ns
Turn-off delay time	td(off)			15	25	ns
Fall time	tf			10	20	ns
<b>Drain-source body diode characteristics</b>						
Continuous Source-Drain Diode Current	IS	Tc=25°C			1.2	A
Pulsed Diode forward Curren	ISM				20	A

**Notes:**

1. Repetitive Rating : Pulse width limited by maximum junction temperature.
2. Surface Mounted on FR4 Board, t < 5 sec.
3. Pulse Test : Pulse Width≤300μs, Duty Cycle ≤ 2%.
4. Guaranteed by design, not subject to production testing.

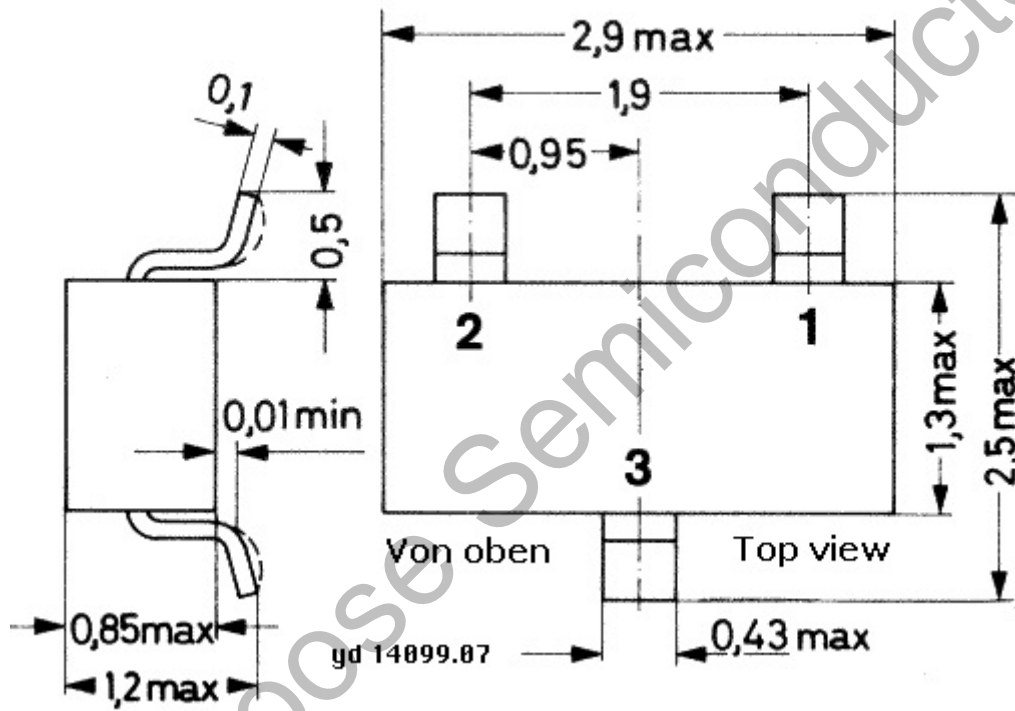
Typical Characteristics



Package Dimension

SOT-23

Unit: mm



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