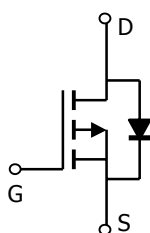
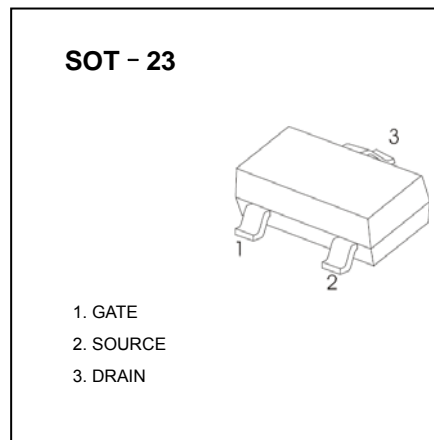


■ Features

- $V_{DS} (V) = -20V$
- $R_{DS(ON)} < 40m\Omega (V_{GS} = -4.5V), I_D = -4.2A$
- $R_{DS(ON)} < 50m\Omega (V_{GS} = -2.5V), I_D = -3.4A$



■ Absolute Maximum Ratings $T_a = 25^\circ C$

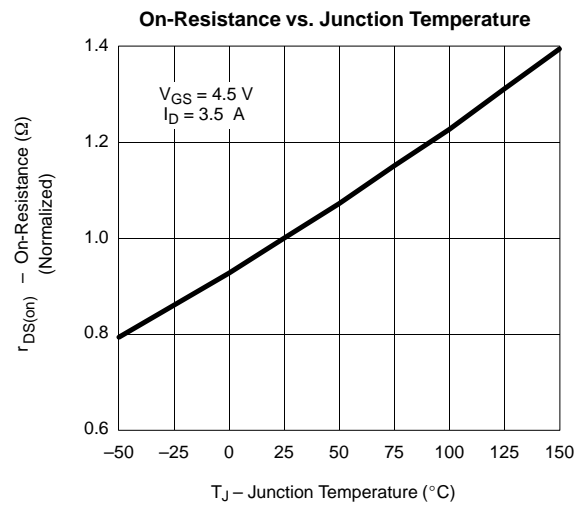
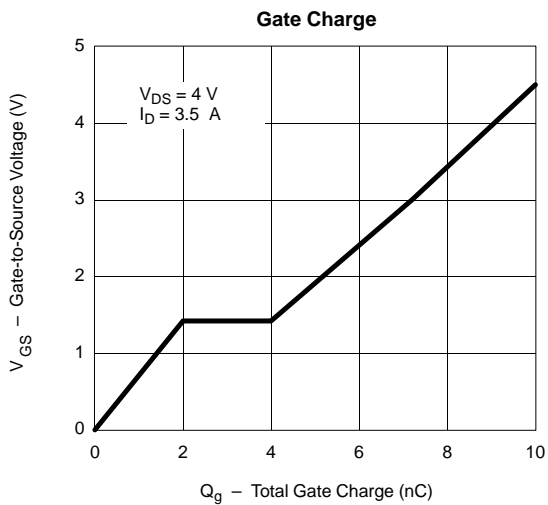
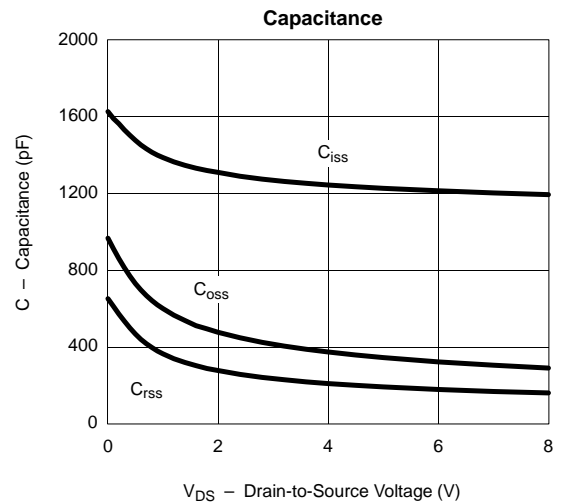
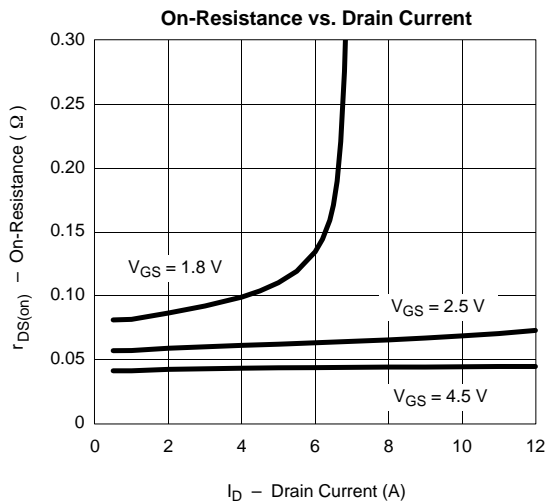
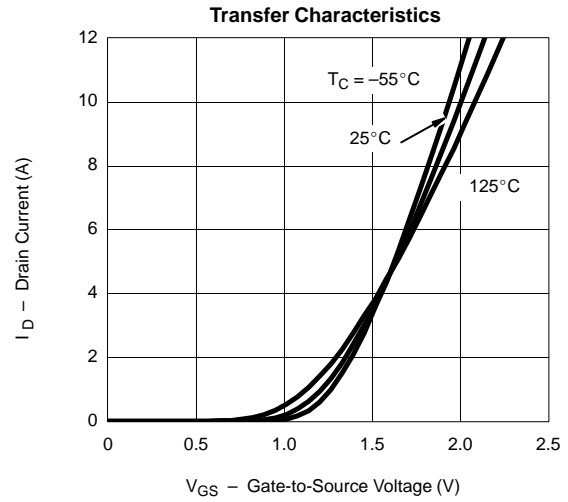
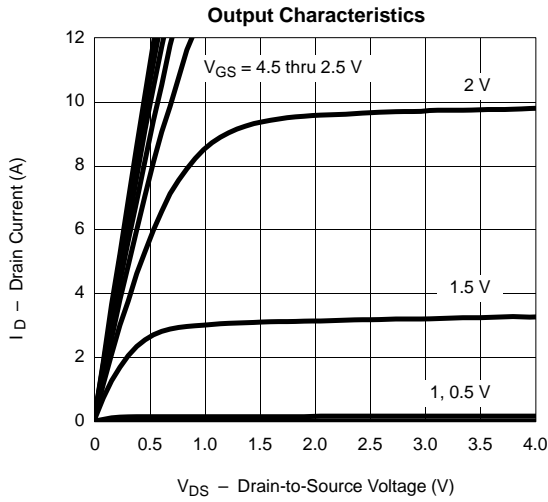
Parameter	Symbol	Rating	Unit
Drain-source voltage	V_{DS}	-20	V
Gate-source voltage	V_{GS}	± 12	V
Continuous drain current	I_D	$T_A = 25^\circ C$ -4.2 $T_A = 70^\circ C$ -3.4	A
Pulsed drain current	I_{DM}	-10	A
Power dissipation	P_D	$T_A = 25^\circ C$ 1.38 $T_A = 70^\circ C$ 0.8	W
Thermal Resistance.Junction-to-Ambient	$R_{\theta JA}$	90	$^\circ C/W$
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150	$^\circ C$

■ Electrical Characteristics Ta = 25°C

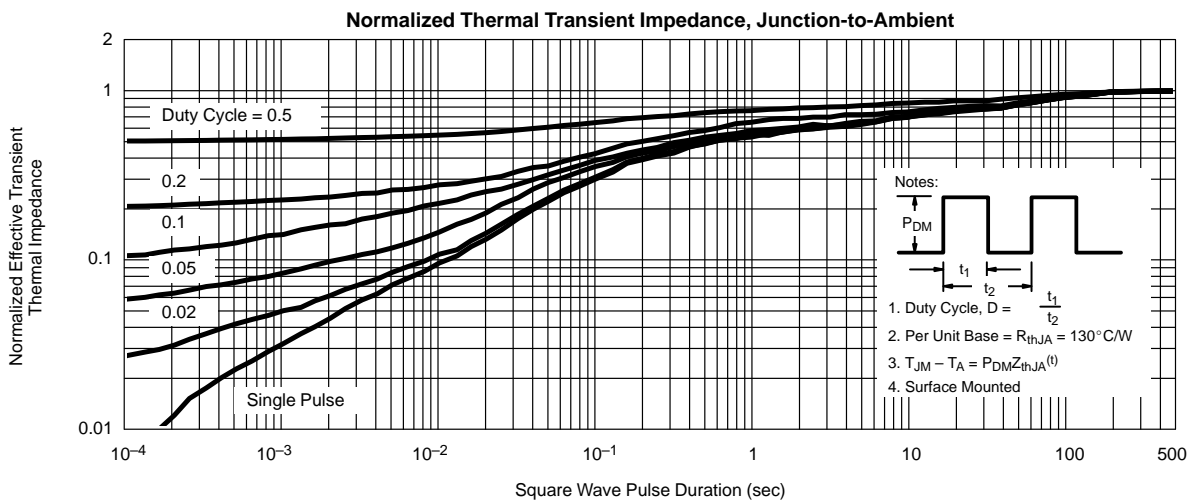
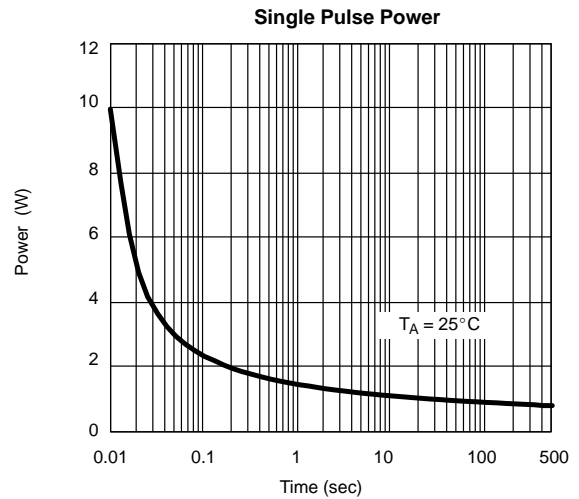
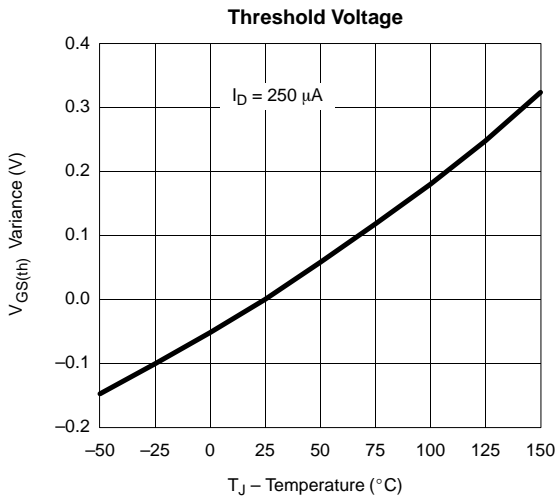
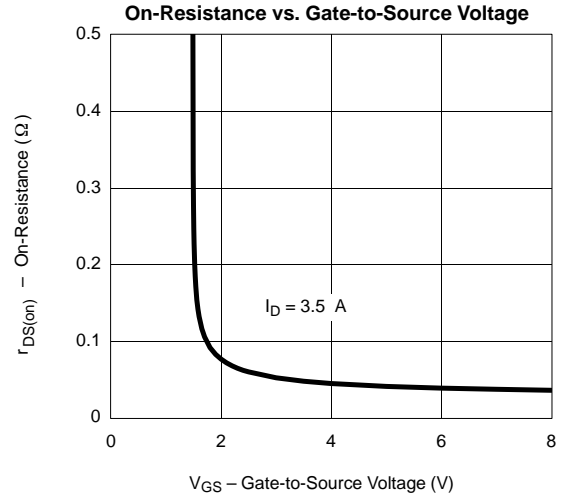
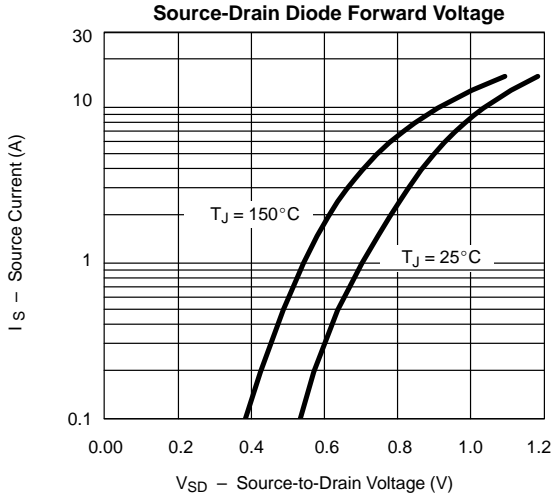
Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain-source breakdown voltage	V _{DSS}	V _{GS} = 0 V, I _D = -10 μA	-20			V
Gate threshold voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D = -250 μA	-0.5			V
Zero gate voltage drain current	I _{DSS}	V _{DS} = -20 V, V _{GS} = 0 V			-1	μA
		V _{DS} = -16 V, V _{GS} = 0 V, T _J = 55 °C			-10	
Gate-body leakage	I _{GSS}	V _{DS} = 0 V, V _{GS} = ±12 V			±100	nA
Drain-source on-state resistance	r _{DS(on)}	V _{GS} = -4.5 V, I _D = -4.2 A			40	mΩ
		V _{GS} = -2.5 V, I _D = -3.4A			50	
On-state drain current	I _{D(on)}	V _{DS} ≤ -5 V, V _{GS} = -4.5 V	-6			A
		V _{DS} ≤ -5 V, V _{GS} = -2.5 V	-3			
Forward transconductance	g _{fs}	V _{DS} = -5 V, I _D = -2.8 A		9		S
Input capacitance *	C _{iss}	V _{DS} = -15V, V _{GS} = 0, f = 1 MHz		740		pF
Output capacitance *	C _{oss}			167		
Reverse transfer capacitance *	C _{rss}			126		
Total gate charge *	Q _g	V _{DS} = -16V, V _{GS} = -4.5 V, I _D = -4.2 A		10.6		nC
Gate-source charge *	Q _{gs}			2.32		
Gate-drain charge *	Q _{gd}			3.68		
Turn-on Delay time	t _{d(on)}	V _{DD} = -15V, R _L = 3.6Ω, I _D = -4.2A, V _{GEN} = -10V, R _G = 6Ω		5.9		ns
Turn-on Rise time	t _r			3.6		
Turn-off Dealy time	t _{d(off)}			32.4		
Turn-off Fall time	t _f			2.6		
Continuous source current (diode conduction) *	I _S			-1.6		A
Diode forward voltage	V _{SD}	I _S = -1.2 A, V _{GS} = 0 V			-1.2	V

* Pulse test: PW ≤ 300 μs duty cycle ≤ 2%.

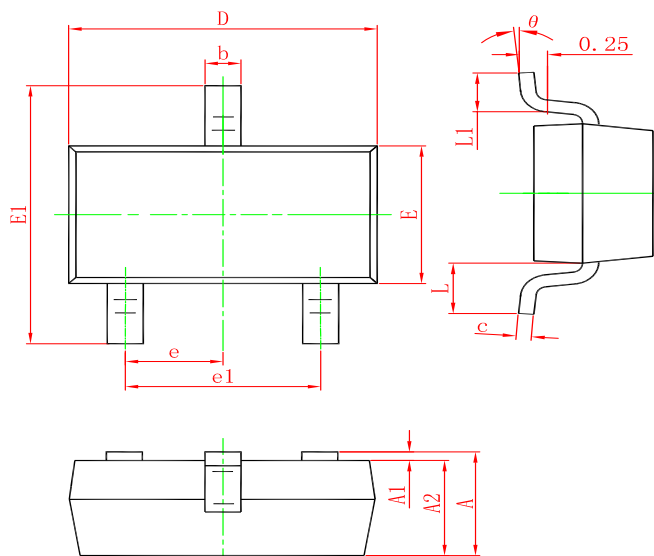
■ Typical Characteristics



■ Typical Characteristics

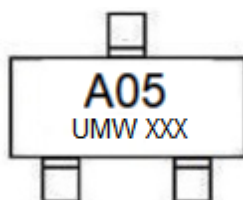


SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Marking



Ordering information

Order code	Package	Baseqty	Deliverymode
UMW SI2317A	SOT-23	3000	Tape and reel

单击下面可查看定价，库存，交付和生命周期等信息

[>>东为电子](#)