



DESCRIPTION

The AM3403 is available in SOT-23S package.

ORDERING INFORMATION

Package Type	Part Number	
SOT-23S SPQ: 3,000pcs/Reel	E3S	AM3403E3SR
		AM3403E3SVR
Note	V: Halogen free Package R: Tape & Reel	
AiT provides all RoHS products		

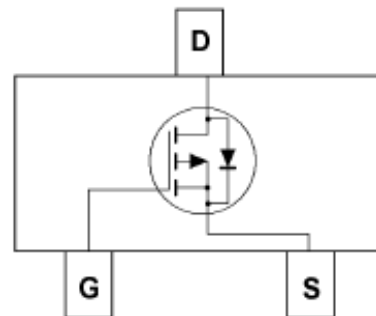
FEATURES

- -30V/-3.2A, $R_{DS(ON)}=55m\Omega(MAX) @V_{GS}=-10V$.
 $R_{DS(ON)}=70m\Omega(MAX) @V_{GS}=-4.5V$.
 $R_{DS(ON)}=120m\Omega(MAX) @V_{GS}=-2.5V$.
- Super High dense cell design for extremely low $R_{DS(ON)}$
- Reliable and Rugged
- Available in SOT-23S Package

APPLICATION

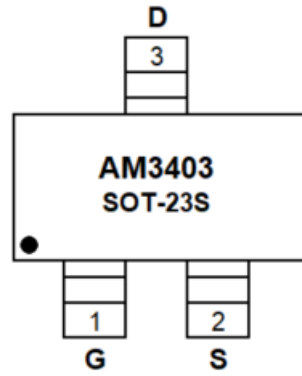
- Power Management
- Portable Equipment and Battery Powered Systems.

PIN DESCRIPTION





PIN DESCRIPTION



Pin #	Symbol	Function
1	G	Gate
2	S	Source
3	D	Drain



ABSOLUTE MAXIMUM RATINGS

T_A= 25°C, unless otherwise noted

V _{DS} , Drain-Source Voltage	-30V
V _{GS} , Gate-Source Voltage	±12V
I _D , Drain Current- Continuous	-3.2A

Stress beyond above listed "Absolute Maximum Ratings" may lead permanent damage to the device. These are stress ratings only and operations of the device at these or any other conditions beyond those indicated in the operational sections of the specifications are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

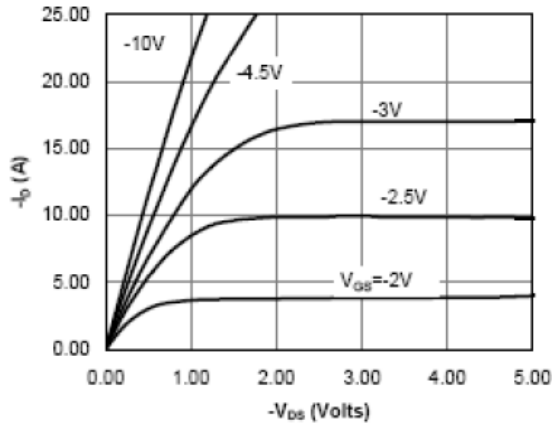
T_A=25°C, unless otherwise noted

Parameter	Symbol	Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =-250μA	-30	-	-	V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V	-	-	-1	μA
Gate Body Leakage Current, Forward	I _{GSSF}	V _{GS} =12V, V _{DS} =0V	-	-	100	nA
Gate Body Leakage Current, Reverse	I _{GSSR}	V _{GS} =-12V, V _{DS} =0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	V _{GS(th)}	V _{GS} =V _{DS} , I _D =-250μA	-0.7	-	-1.3	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =-10V, I _D =-3.2A	-	50	55	mΩ
		V _{GS} =-4.5V, I _D =-3.0A	-	60	70	
		V _{GS} =-2.5V, I _D =-1.0A	-	80	120	
Drain-Source Diode Characteristics and Maximum Ratings						
Diode-Source Diode Forward Voltage	V _{SD}	V _{GS} =0V, I _S =1.0A	-	-	-1.0	V

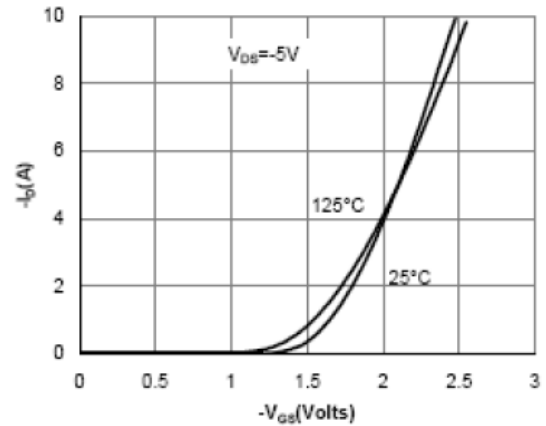


TYPICAL CHARACTERISTICS

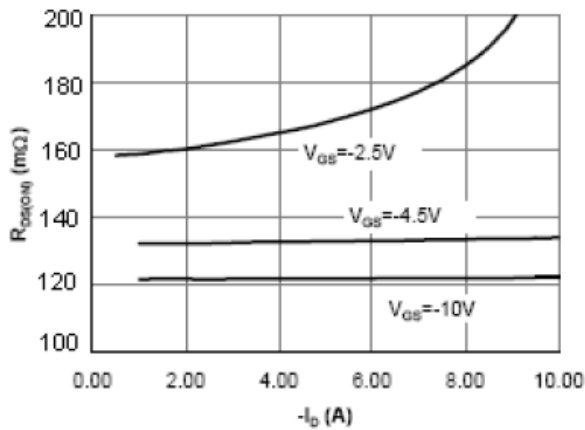
1. On-Region Characteristics



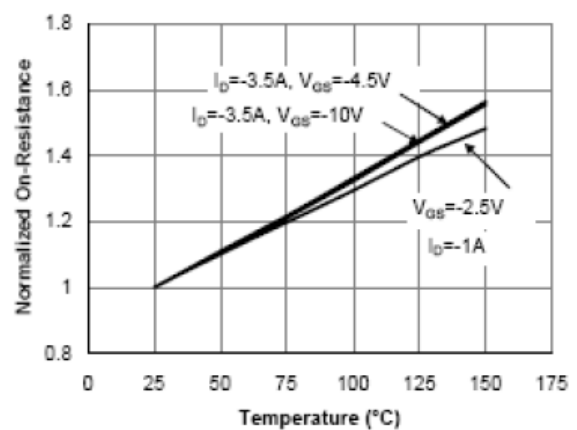
2. Transfer Characteristics



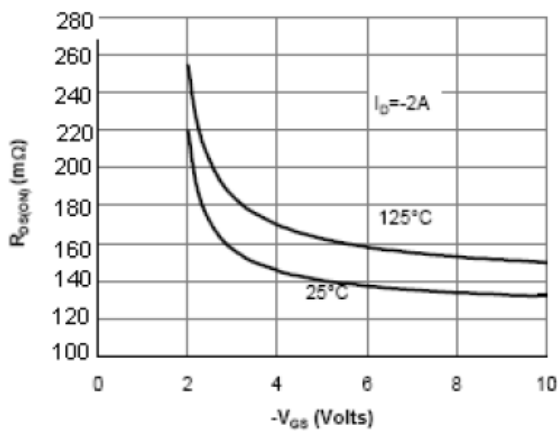
3. On-Resistance vs. Drain Current and Gate Voltage



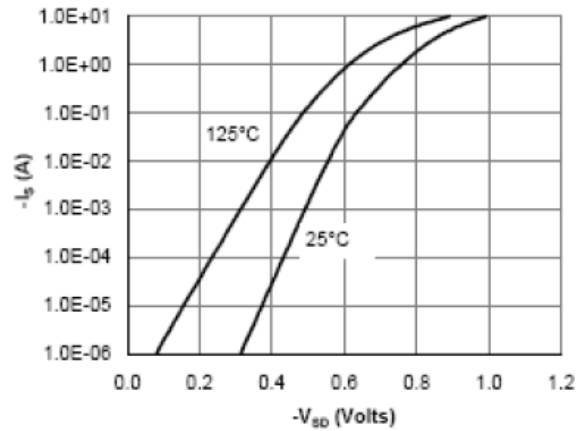
4. On-Resistance vs. Junction Temperature



5. On-Resistance vs. Gate-Source Voltage



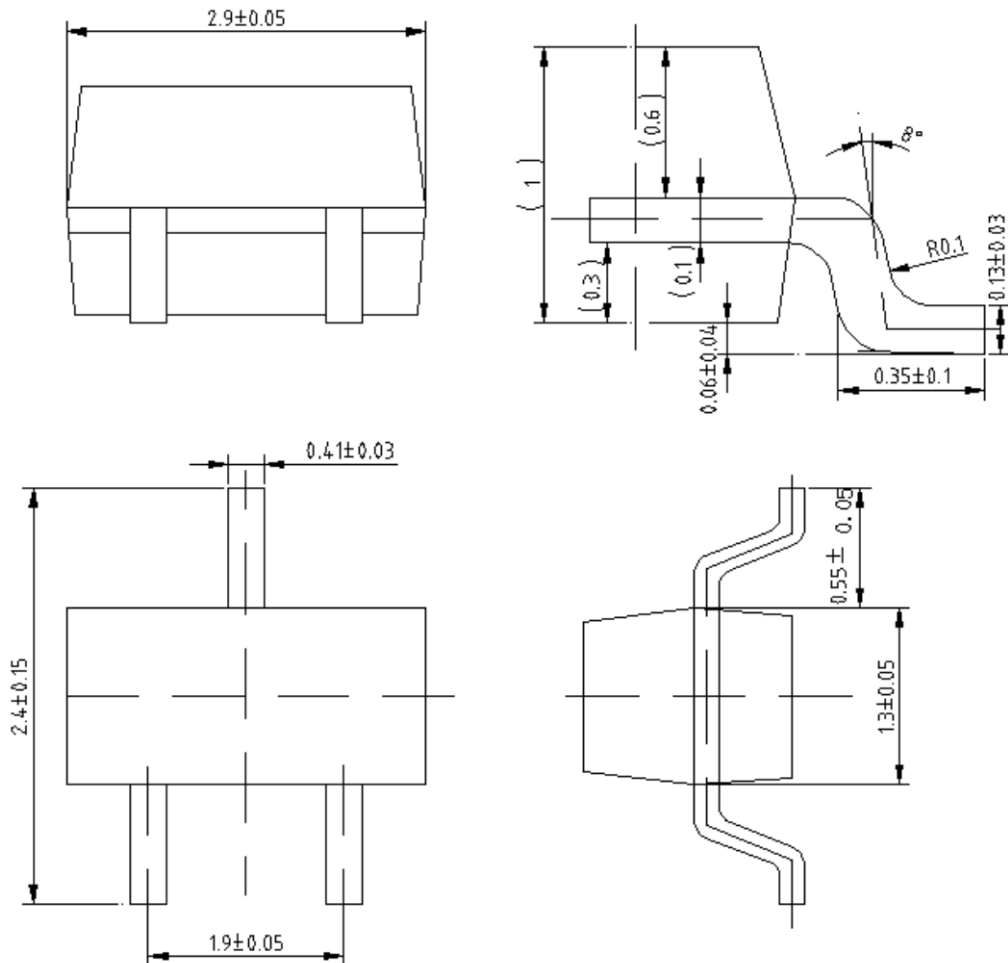
6. Body-Diode Characteristics





PACKAGE INFORMATION

Dimension in SOT-23S (Unit: mm)





IMPORTANT NOTICE

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