



DESCRIPTION

The AM3460 is available in SOT-23S package.

ORDERING INFORMATION

Package Type	Part Number	
SOT-23S	E3S	AM3460E3SR
		AM3460E3SVR
Note	V: Halogen free Package R: Tape & Reel SPQ: 3,000pcs/Reel	
AiT provides all RoHS products Suffix " V " means Halogen free Package		

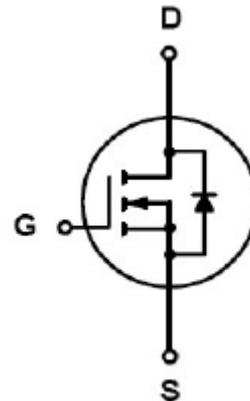
FEATURES

- $BV \geq 60V$ $I_D = 3A$
 $R_{DS(ON)} \leq 90m\Omega$ @ $V_{GS} = 10V$
 $R_{DS(ON)} \leq 110m\Omega$ @ $V_{GS} = 5V$
- Advanced trench cell design
- High speed switch
- Available in SOT-23S Package

APPLICATION

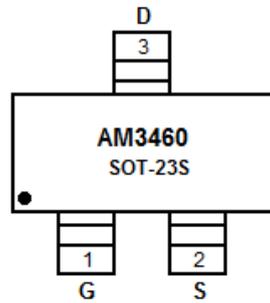
- Portable appliances
- Notebook/PC appliances
- Power Management
- DC/DC Converter

PIN DESCRIPTION





PIN DESCRIPTION



Top View

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

ABSOLUTE MAXIMUM RATINGS

V_{DSS} , Drain-Source Voltage	60V
V_{GSS} , Gate-Source Voltage	±20V

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

$T_J=25^{\circ}\text{C}$, unless otherwise noted

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_{DS} = 250\mu A$	60			V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_{DS} = 250\mu A$	1.0	1.6	2.5	V
Drain Leakage Current	I_{DSS}	$V_{DS} = 48V, V_{GS} = 0V$			1	μA
		$T_J=85^{\circ}\text{C}$			30	μA
Gate Leakage Current	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0V$			±100	nA
On-State Resistance	$R_{DS(ON)}$ NOTE1	$V_{GS} = 10V, I_{DS} = 0.5A$			90	m Ω
		$V_{GS} = 5V, I_{DS} = 0.5A$			110	
Diode Characteristics NOTE2						
Diode Forward Voltage	V_{SD}	$I_{SD} = 0.5A, V_{GS} = 0V$		0.7	1.3	V

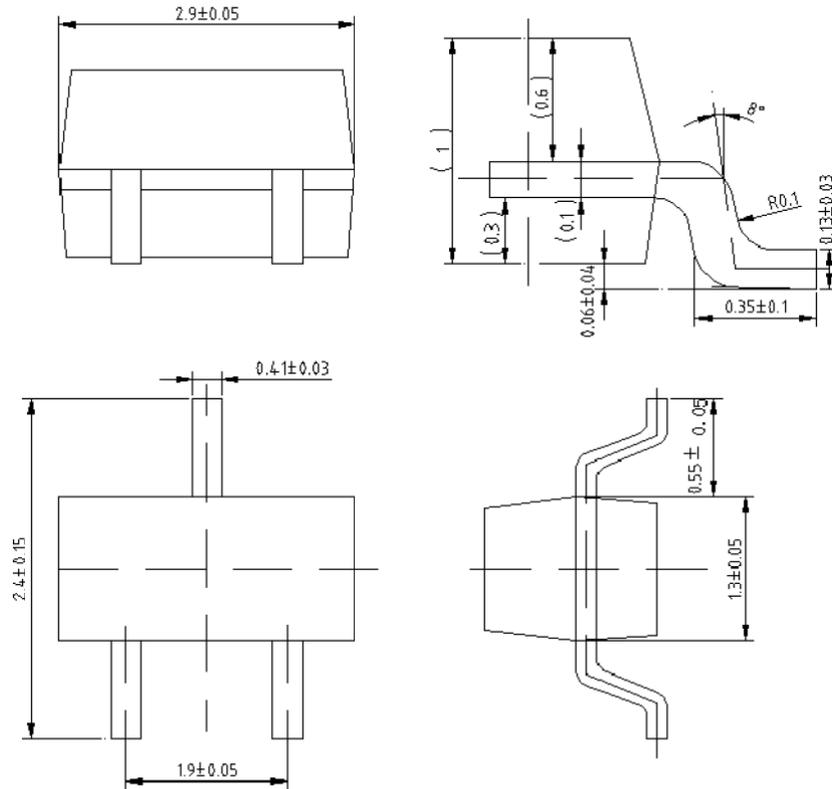
NOTE1: CP measured on wafer by probe card. ($R_{DS(ON)}$ depended on packaged type and amount of bonding wires)

NOTE2: Pulse test: pulse width 300 μs , duty cycle ≤2%.



PACKAGE INFORMATION

Dimension in SOT-23S Package (Unit: mm)





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