



ACS108-5Sx

ASD™ AC Switch Family

AC LINE SWITCH

MAIN APPLICATIONS

- AC on-off static switching in appliance & industrial control systems
- Drive of low power high inductive or resistive loads like
 - relay, valve, solenoid, dispenser
 - pump, fan, micro-motor
 - defrost heater

FEATURES

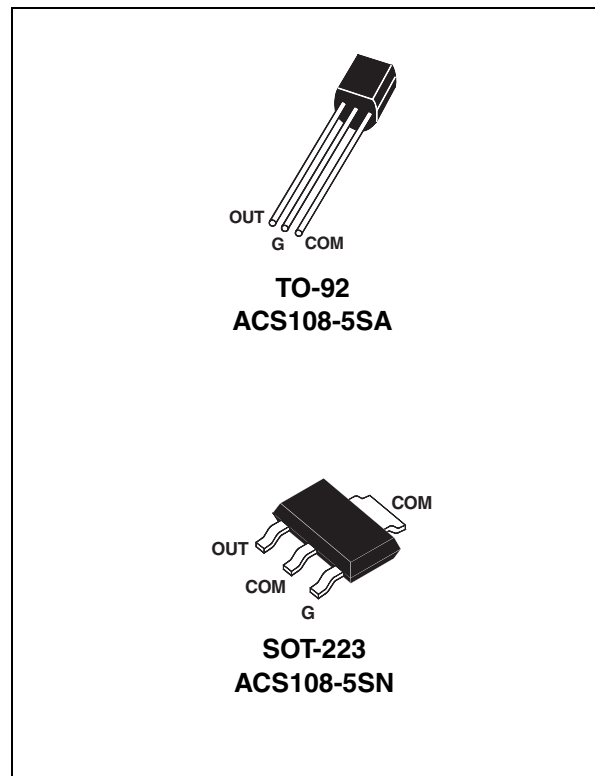
- Blocking voltage: $V_{DRM} / V_{RRM} = 500V$
- Clamping voltage: $V_{CL} = 600V$
- Nominal current: $I_{T(RMS)} = 0.8 A$
- Gate triggering current : $I_{GT} < 10mA$
- Triggering current is sourced by the gate
- Switch integrated driver
- Drive reference COM connected to the SOT-223 tab

BENEFITS

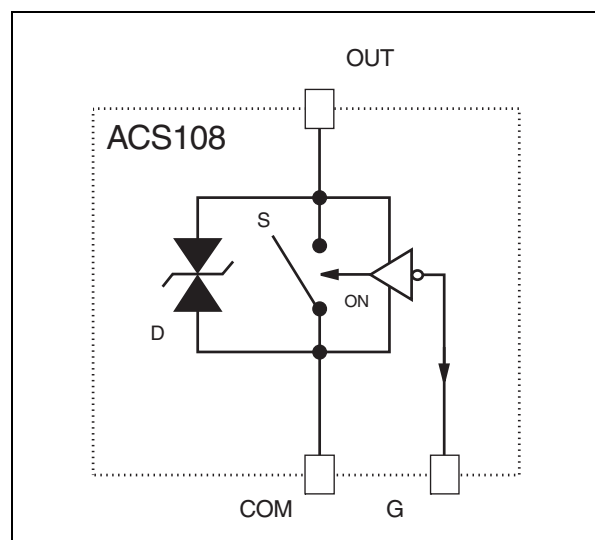
- Needs no external overvoltage protection.
- Enables the equipment to meet IEC61000-4-5 standard.
- Allows straightforward connection of several SOT-223 devices on the same cooling pad.
- Reduces the switch component count by up to 80%.
- Interfaces directly with the microcontroller.
- Eliminates any stressing gate kick back on the microcontroller.

DESCRIPTION

The ACS108 belongs to the AC line switches built around the ASD™ concept. This high performance device is able to control an 0.8 A load device. The ACS™ switch embeds a high voltage clamping structure to absorb the inductive turn-off energy and a gate level shifter driver to separate the digital controller from the main switch. It is triggered with a negative gate current flowing out of the gate pin. For further technical information, please refer to



FUNCTIONAL DIAGRAM



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