

Innovation in power conversion



Product Selector Guide

Energy Saving Solutions

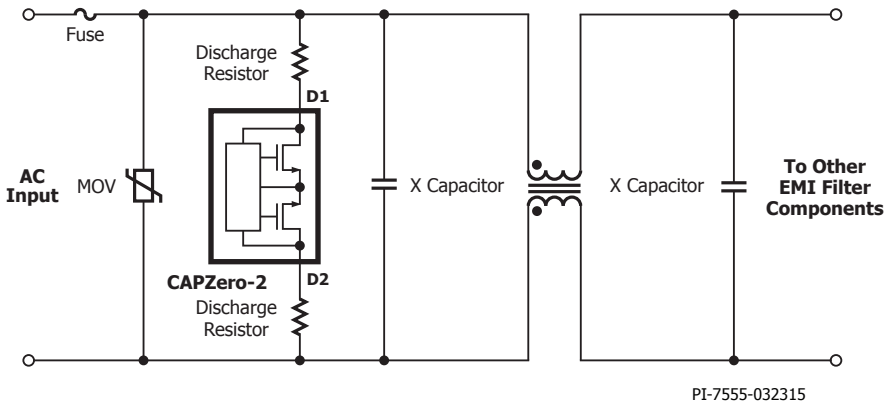


CAPZero™ Automatic X Capacitor Discharge IC

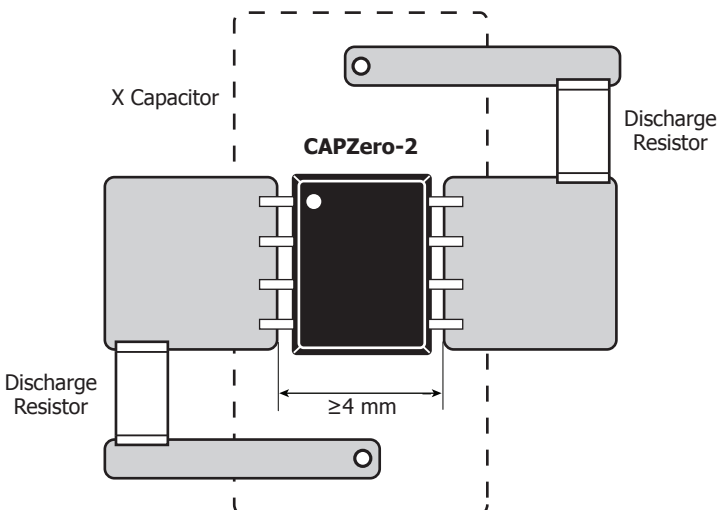
Features:

- Blocks current through X capacitor discharge resistors when AC voltage is connected
- Automatically discharges X capacitors through discharge resistors when AC is disconnected
- Simplifies EMI filter design – larger X capacitor allows smaller inductive components with no change in consumption
- Only two terminals – meets safety standards for use before or after system input fuse
- >4 mm creepage on package and PCB
- Self supplied – no external bias required
- High common mode surge immunity – no external ground connection
- High differential surge withstand – 1000 V internal MOSFETs
- Single part for all applications and power ranges
- CB and NEMKO certification

CAPZero-2 – Active Discharging of the X Capacitor for Reduced Standby or No-load Power Consumption



CAPZero-2 – Typical PCB Layout

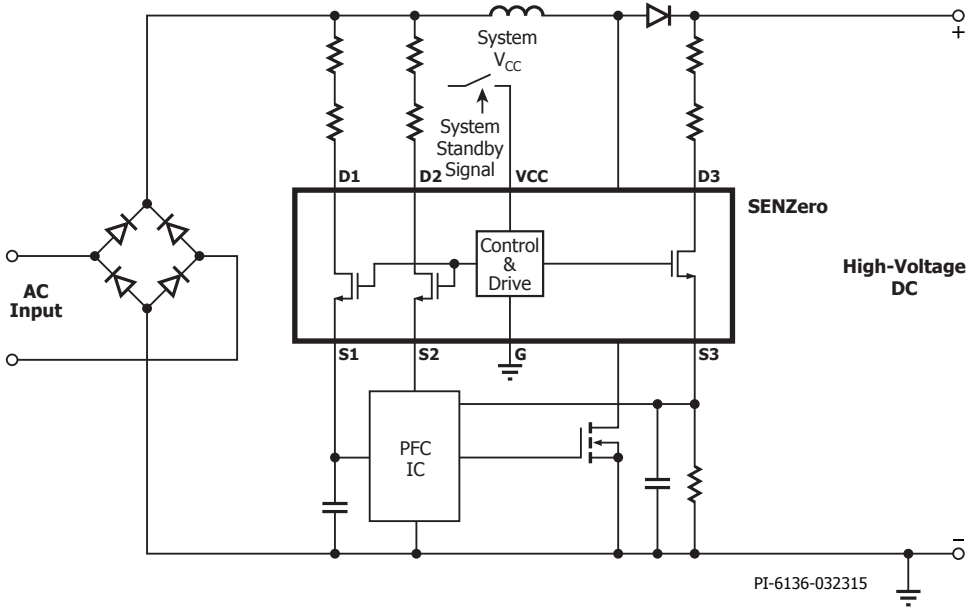


SENZero™ High-Voltage Sense Signal Disconnect IC

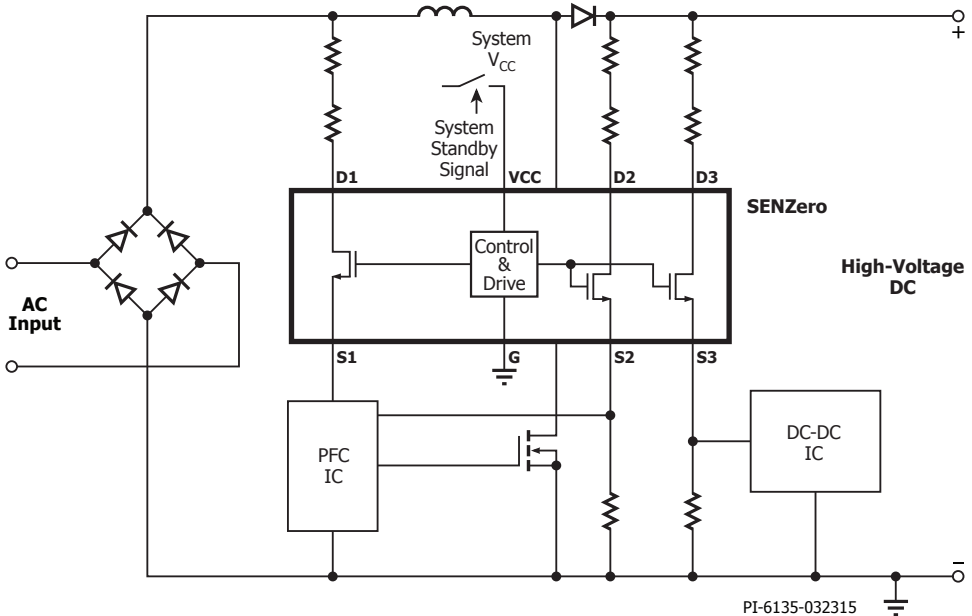
Features:

- Eliminates significant standby losses
 - Disconnects unnecessary circuit blocks during standby, remote-off, or light-load conditions
- Ultra-low leakage (maximum 1 μ A) 650 V MOSFETs
 - <0.5 mW per channel during standby
- Single component provides remote disconnect functionality
 - No external components or additional bias supply needed for remote-off
 - Integrates multiple disconnect MOSFETs, gate drive, and protection
 - Minimal component count provides higher reliability
- Green package technology
 - RoHS compliant and halogen free

SENZero – SEN013DG Used in PFC Circuit to Lower Power Consumption During Standby Mode



SENZero – SEN013DG Used in PFC & DC-DC to Meet <100 mW Standby Power



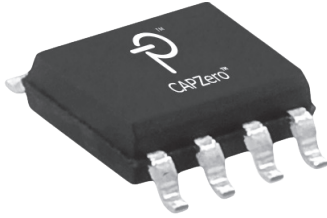
Product Selection Tables

CAPZero-2 – Zero¹ Loss Automatic X Capacitor Discharge IC

Product ³	BV _{DSS}	Total X Capacitance	Total Series Resistance ² (R1 + R2)
CAP200DG	1000 V	100 nF to 6 μF	7.5 MΩ to 142 kΩ

Notes:

1. IEC 62301 clause 4.5 rounds standby power use below 5 mW to zero.
2. Values are nominal. RC time constant is <1 second.
3. Packages: D: SO-8.

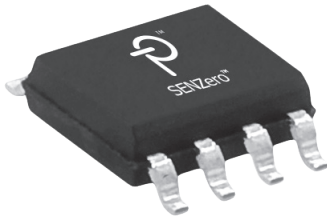


SENZero – Zero¹ Loss High-Voltage Sense Signal Disconnect IC

Product ²	Integrated Disconnect MOSFETs	230 VAC Power Consumption in Standby
SEN012DG	2	<1 mW
SEN013DG	3	<1.5 mW

Notes:

1. IEC 62301 clause 4.5 rounds standby power use below 5 mW to zero.
2. Package: D: SO-8.



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