



Product Overview

MG2040: ESD Protection Diode, Low Capacitance, High Speed Video Interface

For complete documentation, see the data sheet

Product Description

The MG2040 transient voltage suppressor is designed specifically to protect HDMI and Display Port with full functionality ESD protection and back drive current protection for V_{CC} line. Ultra-low capacitance and low ESD clamping voltage make this device an ideal solution for protecting voltage sensitive high speed data lines. The flow-through style package allows for easy PCB layout and matched trace lengths necessary to maintain consistent impedance for the high speed TMDS lines.

Features

- Full Function HDMI/Display Port Solution
- Single Connect, Flow through Routing for TMDS Lines
- Low Capacitance (0.35pF Typical, I/O to GND)
- Protection for the following IEC Standards: IEC 61000-4-2 Level 4(±8 kV Contact)
- UL Flammability Rating of 94 V-0
- Pb-Free Device

Applications

- HDMI
- Display Port

Part Electrical Specifications

Product	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V_{BR} Min (V)	V_{BWM} Max (V)	I_R Max (uA)	P_{2K} Max (W)	Package Type
MG2040MUTAG	AEC Qualified	Active	Display Port	14	Unidirectional	0.42	5.5	5	1	10.7	UDFN-18
	Pb-free Halide free		HDMI 1.3/1.4								
SZMG2040MUTAG	AEC Qualified	Active	Display Port	14	Unidirectional	0.42	5.5	5	1	10.7	UDFN-18
	PPAP Capable Pb-free Halide free		HDMI 1.3/1.4								

For more information please contact your local sales support at www.onsemi.com

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