

Product Overview

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



For complete documentation, see the data sheet.

The MG2040 is designed specifically to protect HDMI and Display Port with full functionality ESD protection and back drive current protection for VCC 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	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V _{BR} Min (V)	V _{RWM} Max (V)	I _R Max (μA)	P _{PK} Max (W)	Package Type
MG2040MUTAG	0.3839	Pb-free Halide free	Active	Display Port HDMI 1.3/1.4	14	Unidirectional	0.42	5.5	5	1	10.7	UDFN-18
SZMG2040MUTAG	0.3168	AEC Qualified PPAP Capable Pb-free Halide free	Active	HDMI 1.3/1.4 Display Port	14	Unidirectional	0.42	5.5	5	1	10.7	UDFN-18

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

Created on: 7/5/2020