

# ESD Diode Product Selection and Application Guide

ITG P/N	Bi Directional	HDM/Display Port	IEEE 1394	Ethernet	USB1.1/2.0/OTG	Phone Jack (Audio)	Display Panel	Control Line	Keypad	DVI	VGA	Finger Scan	Antenna	LED	Ext. Memory/SIM Cards	Battery	Vol Adj. ON/OFF	Speaker
<b>HIGH SPEED DATA LINE PROTECTION FAMILY</b>																		
HSLP01B04AA	-	-	Y	Y	Y	-	Y	-	-	Y	Y	-	-	-	-	-	-	-
HSLP01B02CA	-	-	-	-	-	-	Y	-	-	-	-	Y	-	-	-	-	-	-
HSLP01B02BA	-	-	-	-	-	-	Y	-	-	-	-	Y	-	-	-	-	-	-
HSLP04B12HA	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSLP04B04AA	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSLP04B04GA	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>HIGH SPEED-LOW CURRENT DATA LINE PROTECTION FAMILY</b>																		
HSLC00B02CA	-	-	Y	Y	Y	-	Y	-	-	Y	-Y	-	-	-	-	-	-	-
HSLC00B04AA	-	-	Y	Y	Y	-	Y	-	Y	Y	Y	-	-	Y	Y	Y	Y	Y
HSLC01B02CA	-	-	-	-	-	-	Y	-	-	-	-	Y	-	-	-	-	-	-
HSLC01B04BA	-	-	Y	Y	Y	-	Y	-	-	Y	Y	-	-	-	-	-	-	-
HSLC09B04AA	-	-	-	-	-	-	-	-	-	Y	Y	-	-	-	-	-	-	-
<b>POWER AND CONTROL LINES PROTECTION FAMILY</b>																		
PCLP01B01FA	-	-	-	-	Y	Y	Y	Y	Y	-	-	-	-	Y	Y	Y	Y	-
PCLP01B01EA	-	-	-	-	-	Y	Y	Y	Y	-	-	-	-	Y	Y	Y	Y	-
PCLP01B02DA	-	-	-	-	-	Y	Y	Y	Y	-	-	-	-	Y	-	Y	-	-
PCLP02B01FA	Y	-	-	-	-	Y	Y	Y	Y	-	-	-	Y	Y	-	Y	-	Y
PCLP02B02DA	Y	-	-	-	-	Y	-	Y	Y	-	-	-	-	Y	-	-	-	Y

**For Further Product Information and Datasheets, please contact our Global Support Hotlines**

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ITG P/N	Cap	Vrwm	Vcl	IEC 61000-4-2 (ESD)	IEC 61000-4-4 (EFT) (5/50ns)	IEC 61000-4-5 (Lightning) (8/20ns)	Quantity per Reel (7"/13')	Package
<b>HIGH SPEED DATA LINE PROTECTION FAMILY</b>								
HSLP01B04AA	2pF	3.3V ~ 5V	7.8v	±15kV (air), ±8kV (contact)	40A	12A	3,000/10,000	SOT23-6L
HSLP01B02CA	2pF	3.3V ~ 5V	8v	±15kV (air), ±8kV (contact)	40A	12A	3,000/10,000	SOT143-4L
HSLP01B02BA	2pF	3.3V ~ 5V	8.5v	±15kV (air), ±8kV (contact)	40A	12A	3,000/10,000	SOT23-5L
HSLP04B12HA	0.6pF	3.3V ~ 5V	9v	±15kV (air), ±8kV (contact)	TBA	TBA	3,000/10,000	TSSOP38
HSLP04B04AA	0.6pF	3.3V ~ 5V	TBA	±15kV (air), ±8kV (contact)	TBA	TBA	3,000/10,000	SOT23-6L
HSLP04B04GA	0.6pF	3.3V ~ 5V	TBA	±15kV (air), ±8kV (contact)	TBA	TBA	3,000/10,000	MSOP10
<b>HIGH SPEED-LOW CURRENT DATA LINE PROTECTION FAMILY</b>								
HSLC00B02CA	1.2pF	3.3V ~ 5V	8.1v	±15kV (air), ±8kV (contact)	Level 3, 20A for I/O, 80A for Power	6A	3,000/10,000	SOT143-4L
HSLC00B04AA	1.2pF	3.3V ~ 5V	8.1v	±15kV (air), ±8kV (contact)	Level 3, 20A for I/O, 40A for Power	6A	3,000/10,000	SOT23-6L
HSLC01B02CA	1.3pF	3.3V ~ 5V	8.1v	±15kV (air), ±8kV (contact)	Level 3, 20A for I/O, 80A for Power	6A	3,000/10,000	SOT143-4L
HSLC01B04BA	1.3pF	3.3V ~ 5V	8.1v	±15kV (air), ±8kV (contact)	Level 3, 20A for I/O, 80A for Power	6A	3,000/10,000	SOT23-6L
HSLC09B04AA	1pF	3.3V ~ 5V	8.1v	±15kV (air), ±8kV (contact)	Level 3, 20A for I/O, 80A for Power	4A	3,000/10,000	SOT23-6L
<b>POWER AND CONTROL LINES PROTECTION FAMILY</b>								
PCLP01B01FA	20pF	3.3V ~ 5V	7v	±20kV (air), ±12kV (contact)	40A	7A	3,000/10,000	SOD523-2L
PCLP01B01EA	20pF	3.3V ~ 5V	7v	±20kV (air), ±12kV (contact)	40A	7A	3,000/10,000	SOD323-2L
PCLP01B02DA	90pF	3.3V ~ 5V	7v	±22kV (air), ±16kV (contact)	60A	13A	3,000/10,000	SOT23-3L
PCLP02B01FA	11.5pF	3.3V ~ 5V	7v	±20kV (air), ±12kV (contact)	40A	7A	3,000/10,000	SOD523-2L
PCLP02B02DA	12pF	3.3V ~ 5V	7v	±20kV (air), ±12kV (contact)	40A	7A	3,000/10,000	SOT23-3L

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