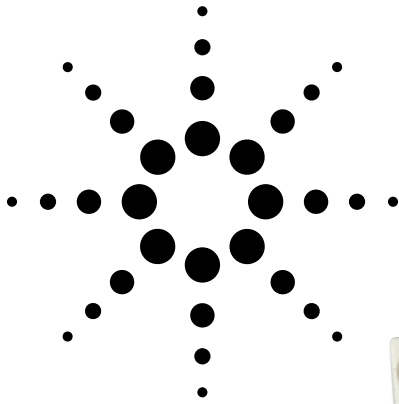


Agilent HSMx-A10x-xxxxx PLCC-2 Surface Mount LED Indicator Data Sheet



Description

This family of SMT LEDs is packaged in the industry standard PLCC-2 package. These SMT LEDs have high reliability performance and are designed to work under a wide range of environmental conditions. This high reliability feature makes them ideally suited to be used under harsh interior automotive as well as interior signs application conditions.

To facilitate easy pick & place assembly, the LEDs are packed in EIA-compliant tape and reel. Every reel will be shipped in single intensity and color bin, except red color, to provide close uniformity.

These LEDs are compatible with IR solder reflow process. Due to the high reliability feature of these products, they can also be mounted using through-the-wave soldering process.

The super wide viewing angle at 120° makes these LEDs ideally suited for panel, push button, or general backlighting in automotive interior, office equipment, industrial equipment, and home appliances. The flat top emitting surface makes it easy for these LEDs to mate with light pipes. With the built-in reflector pushing up the intensity of the light output, these LEDs are also suitable to be used as LED pixels in interior electronic signs.

Features

- Industry standard PLCC-2 package
- High reliability LED package
- High brightness using AlInGaP and InGaN dice technologies
- Available in full selection of colors
- Super wide viewing angle at 120°
- Available in 8 mm carrier tape on 7 inch reel (2000 pieces)
- Compatible with both IR and TTW soldering process

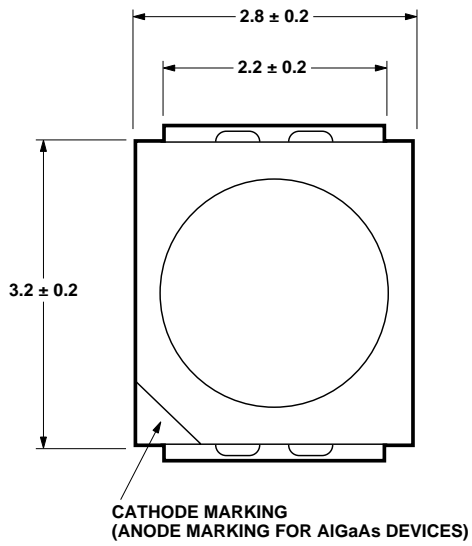
Applications

- Interior automotive
 - Instrument panel backlighting
 - Central console backlighting
 - Cabin backlighting
- Electronic signs and signals
 - Interior full color sign
 - Variable message sign
- Office automation, home appliances, industrial equipment
 - Front panel backlighting
 - Push button backlighting
 - Display backlighting

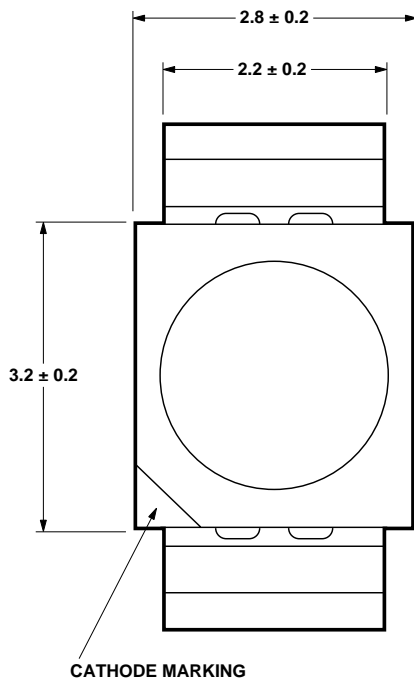
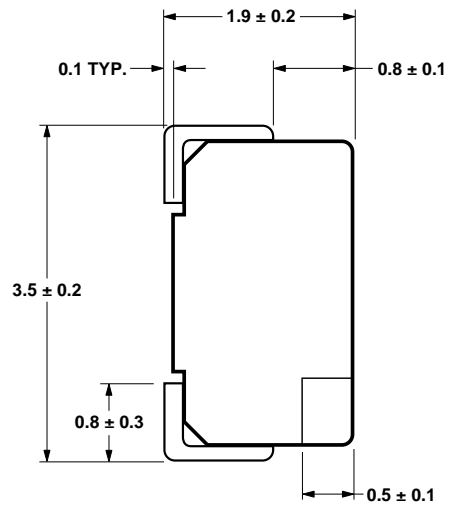
CAUTION: HSMN,M,K and E-A10x-xxxxx LEDs are Class 2 ESD sensitive. Please observe appropriate precautions during handling and processing. Refer to Agilent Application Note AN-1142 for additional details.



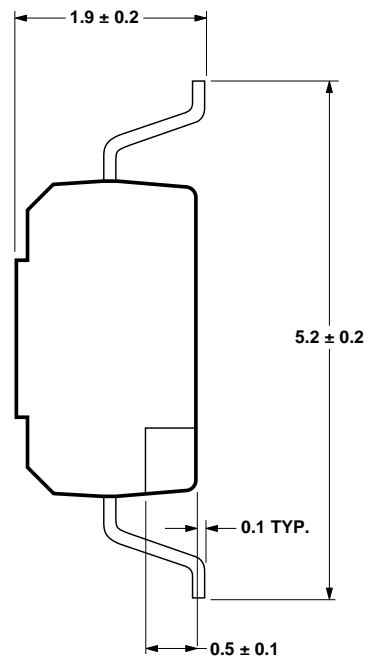
Package Dimensions



TOP MOUNT



REVERSE MOUNT



NOTE: ALL DIMENSIONS IN MILLIMETERS.

Device Selection Guide

Red

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMS-A100-J00J1	4.0	15.0	-	20	GaP
HSMS-A100-L00J1	10.0	15.0	-	20	GaP
HSMS-A100-H70J2	3.0	-	8.0	10	GaP
HSMS-A100-J80J2	5.0	-	15.5	10	GaP
HSMH-A100-L00J1	10.0	15.0	-	20	AlGaAs
HSMH-A100-N00J1	25.0	50.0	-	20	AlGaAs
HSMH-A100-L70J2	12.5	-	32.0	10	AlGaAs
HSMH-A100-M80J2	20.0	-	62.0	10	AlGaAs
HSMH-A100-P30J1	40.0	-	100.0	20	AlGaAs
HSMC-A100-J00J1	4.0	100.0	-	20	AllnGaP
HSMC-A100-Q00J1	63.0	100.0	-	20	AllnGaP
HSMC-A100-R00J1	100.0	140.0	-	20	AllnGaP
HSMC-A101-S00J1	160.0	220.0	-	20	AllnGaP
HSMZ-A100-T00J1	250.0	350.0	-	20	AllnGaP
HSMC-A100-P30J1	40.0	-	100.0	20	AllnGaP
HSMC-A100-Q40J1	63.0	-	200.0	20	AllnGaP
HSMC-A101-R80J1	125.0	-	395.0	20	AllnGaP
HSMZ-A100-S80J1	200.0	-	620.0	20	AllnGaP

Red Orange

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMJ-A100-Q00J1	63.0	100.0	-	20	AllnGaP
HSMJ-A101-S00J1	160.0	200.0	-	20	AllnGaP
HSMV-A100-T00J1	250.0	350.0	-	20	AllnGaP
HSMJ-A100-Q30J1	63.0	-	155.0	20	AllnGaP
HSMJ-A100-R40J1	100.0	-	315.0	20	AllnGaP
HSMJ-A101-R80J1	125.0	-	395.0	20	AllnGaP
HSMV-A100-S80J1	200.0	-	620.0	20	AllnGaP

Orange

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMD-A100-J00J1	4.0	15.0	-	20	GaP
HSMD-A100-L00J1	10.0	15.0	-	20	GaP
HSMD-A100-J7PJ2	5.0	-	12.5	10	GaP
HSMD-A100-K4PJ2	6.3	-	20.0	10	GaP
HSML-A100-Q00J1	63.0	100.0	-	20	AllnGaP
HSML-A101-S00J1	160.0	220.0	-	20	AllnGaP
HSML-A100-Q7PJ1	80.0	-	200.0	20	AllnGaP
HSML-A100-R7PJ1	125.0	-	315.0	20	AllnGaP
HSML-A101-R8WJ1	125.0	-	395.0	20	AllnGaP

Device Selection Guide, continued

Yellow/Amber

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMY-A100-J00J1	4.0	12.0	-	20	GaP
HSMY-A100-L00J1	10.0	12.0	-	20	GaP
HSMY-A100-J35J2	4.0	-	10.0	10	GaP
HSMY-A100-K45J2	6.3	-	20.0	10	GaP
HSMY-A100-Q00J1	63.0	100.0	-	20	AllnGaP
HSMY-A101-S00J1	160.0	220.0	-	20	AllnGaP
HSMU-A100-S00J1	160.0	320.0	-	20	AllnGaP
HSMY-A100-Q35J1	63.0	-	155.0	20	AllnGaP
HSMY-A100-R45J1	100.0	-	315.0	20	AllnGaP
HSMY-A101-R8WJ1	125.0	-	395.0	20	AllnGaP
HSMU-A100-S4WJ1	160.0	-	500.0	20	AllnGaP

Yellow Green

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMG-A100-J02J1	4.0	18.0	-	20	GaP
HSMG-A100-K72J2	8.0	-	20.0	10	GaP
HSME-A100-M02J1	16.0	70.0	-	20	AllnGaP
HSME-A100-N82J1	30.0	-	100.0	20	AllnGaP

Emerald Green

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMG-A100-H01J1	2.5	8.0	-	20	GaP
HSMG-A100-G31J2	1.6	-	4.0	10	GaP
HSMG-A100-H41J2	2.5	-	8.0	10	GaP
HSME-A100-L01J1	10.0	40.0	-	20	AllnGaP
HSME-A100-M3PJ1	16.0	-	40.0	20	AllnGaP

Green

Part Number	Min. Iv (mcd)	Typ. Iv (mcd)	Max. Iv (mcd)	Test Current (mA)	Dice Technology
HSMM-A101-R00J1	100.0	200.0	-	20	InGaN
HSMM-A100-S00J1	160.0	350.0	-	20	InGaN
HSMM-A101-Q7PJ1	80.0	-	200.0	20	InGaN
HSMM-A101-R7PJ1	125.0	-	315.0	20	InGaN
HSMM-A101-R8PJ1	125.0	-	395.0	20	InGaN
HSMM-A100-S8PJ1	200.0	-	620.0	20	InGaN