

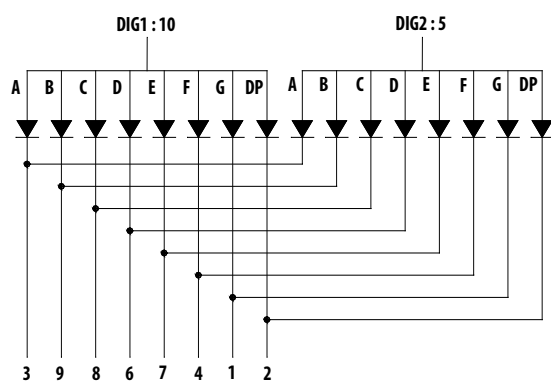
Pin Connection (Common Anode)

PIN No	Connection
1	CATHODE G
2	CATHODE DP
3	CATHODE A
4	CATHODE F
5	COMMON ANODE DIG2
6	CATHODE D
7	CATHODE E
8	CATHODE C
9	CATHODE B
10	COMMON ANODE DIG1

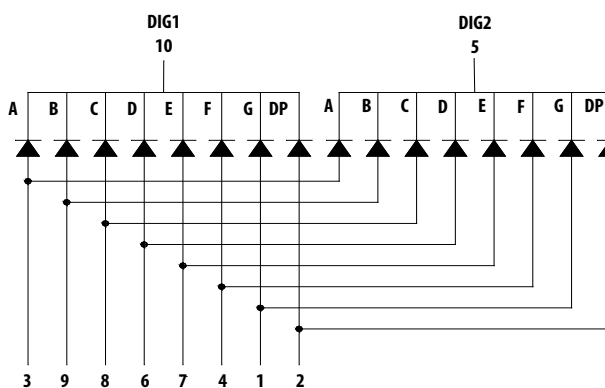
Pin Connection (Common Cathode)

PIN No	Connection
1	ANODE G
2	ANODE DP
3	ANODE A
4	ANODE F
5	COMMON CATHODE DIG2
6	ANODE D
7	ANODE E
8	ANODE C
9	ANODE B
10	COMMON CATHODE DIG 1

Internal Circuit Diagram (Common Anode)



Internal Circuit Diagram (Common Cathode)



Absolute Maximum Ratings @ $T_A=25^\circ$

Parameter	Green/Yellow/Red/Orange	Unit
Power Dissipation Per Segment	65	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, .01ms pulse width)	100	mA
Continuous Forward Current Per Segment Derating Linearly From 25°C Per Segment	25 0.25	mA mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40°C to +105°C	
Storage Temperature Range	-40°C to +105°C	

Electrical / Optical Characteristics @ T_A=25°C

Green

Parameters	Symbol	Min	Typ	Max	Unit	Test Condition
Average Luminous Intensity	I _V	5.4	10.5	-	mcd	I _F = 10mA
Emissions Wavelength	λ _p /λ _d	-	572/571	-	nm	I _F = 20mA
Spectral Line Half-Width	Δλ	-	20	-	nm	I _F = 20mA
Forward Voltage, Per Segment	V _F	-	2.1	2.6	V	I _F = 20mA
Reverse Current, Per Segment	I _R	-	-	100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _{V-M}	-	-	2:1	-	I _F = 10mA

Yellow

Parameters	Symbol	Min	Typ	Max	Unit	Test Condition
Average Luminous Intensity	I _V	8.6	20	-	mcd	I _F = 10mA
Emissions Wavelength	λ _p /λ _d	-	591/589	-	nm	I _F = 20mA
Spectral Line Half-Width	Δλ	-	15	-	nm	I _F = 20mA
Forward Voltage, Per Segment	V _F	-	2.1	2.6	V	I _F = 20mA
Reverse Current, Per Segment	I _R	-	-	100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _{V-M}	-	-	2:1	-	I _F = 10mA

Red

Parameters	Symbol	Min	Typ	Max	Unit	Test Condition
Average Luminous Intensity	I _V	8.6	16.0	-	mcd	I _F = 10mA
Emissions Wavelength	λ _p /λ _d	-	632/624	-	nm	I _F = 20mA
Spectral Line Half-Width	Δλ	-	20	-	nm	I _F = 20mA
Forward Voltage, Per Segment	V _F	-	2.0	2.6	V	I _F = 20mA
Reverse Current, Per Segment	I _R	-	-	100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _{V-M}	-	-	2:1	-	I _F = 10mA

Orange

Parameters	Symbol	Min	Typ	Max	Unit	Test Condition
Average Luminous Intensity	I _V	8.6	19.5	-	mcd	I _F = 10mA
Emissions Wavelength	λ _p /λ _d	-	611/605	-	nm	I _F = 20mA
Spectral Line Half-Width	Δλ	-	17	-	nm	I _F = 20mA
Forward Voltage, Per Segment	V _F	-	2.1	2.6	V	I _F = 20mA
Reverse Current, Per Segment	I _R	-	-	100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _{V-M}	-	-	2:1	-	I _F = 10mA

Typical Electrical / Optical characteristic curves @ $T_A=25^\circ\text{C}$

Green

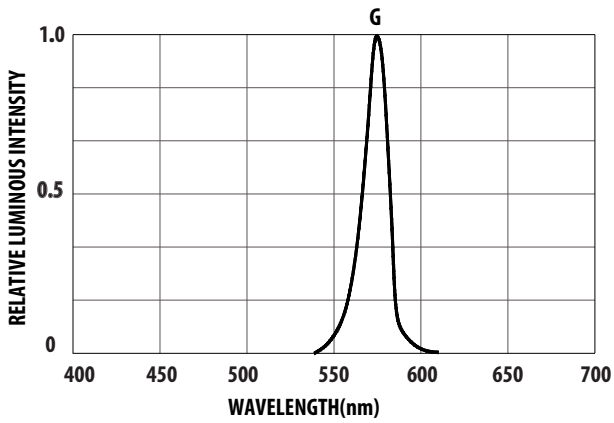


Figure 1. Relative Luminous Intensity vs. Wavelength

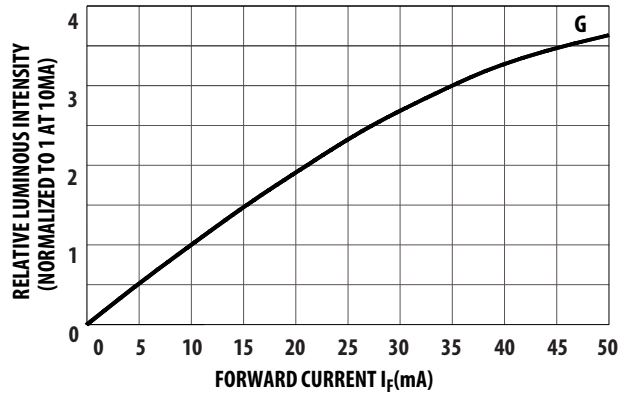


Figure 2. Relative Luminous Intensity vs. Forward Current

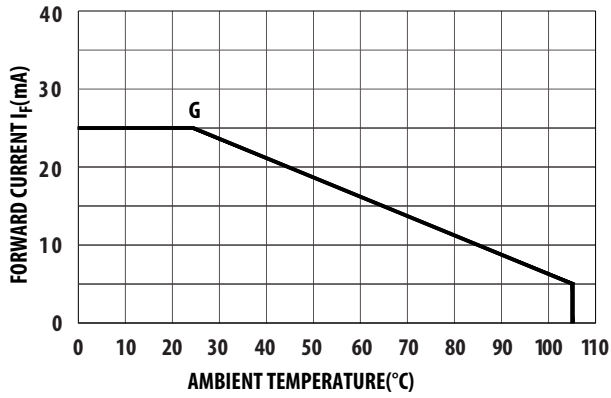


Figure 3. Allowable DC Current vs. Ambient Temperature

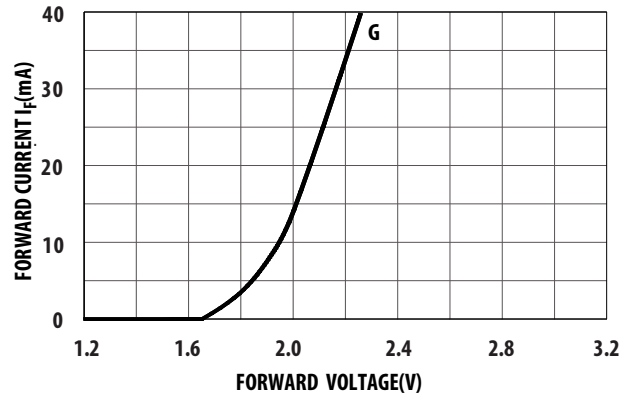


Figure 4. Forward Current vs. Forward Voltage

Yellow

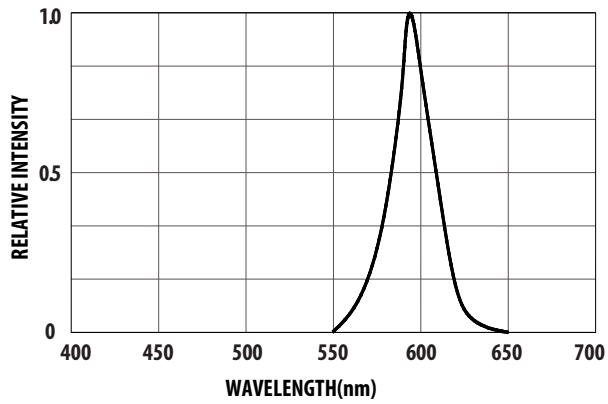


Figure 1. Relative Intensity vs. Wavelength

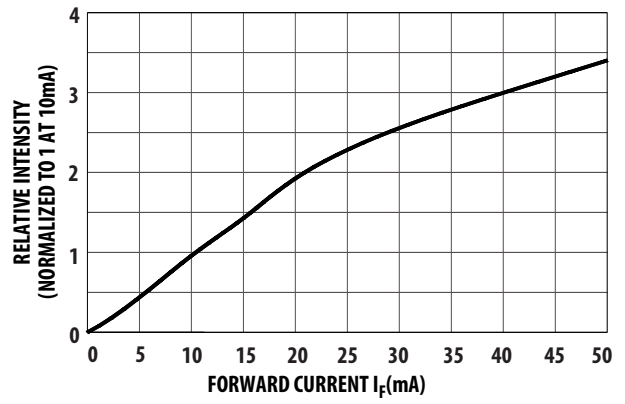


Figure 2. Relative Intensity vs. Forward Current

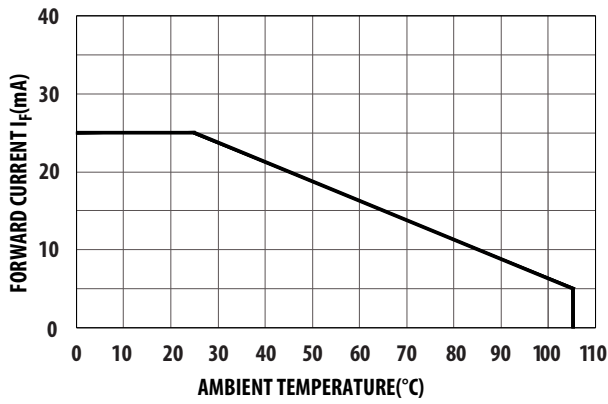


Figure 3. Allowable DC Current vs. Ambient Temperature

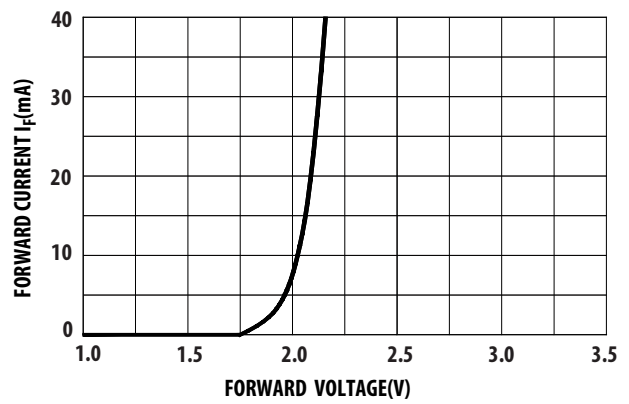


Figure 4. Forward Current vs. Forward Voltage

Red

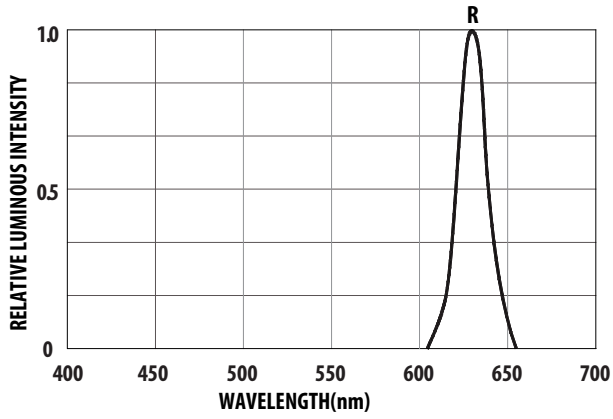


Figure 1. Relative Luminous Intensity vs. Wavelength

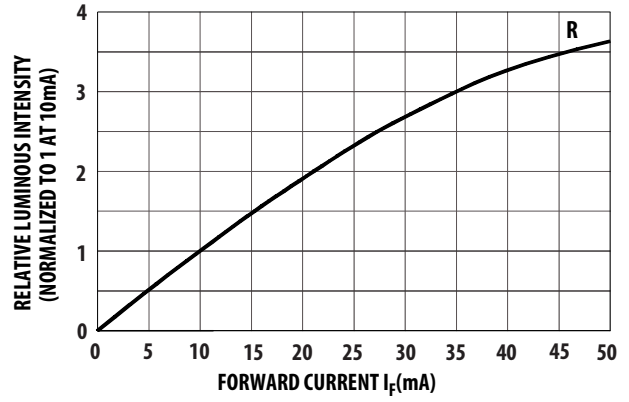


Figure 2. Relative Luminous Intensity vs. Forward Current

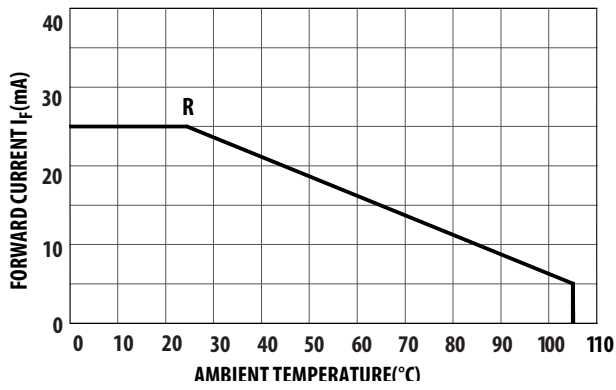


Figure 3. Allowable DC Current vs. Ambient Temperature

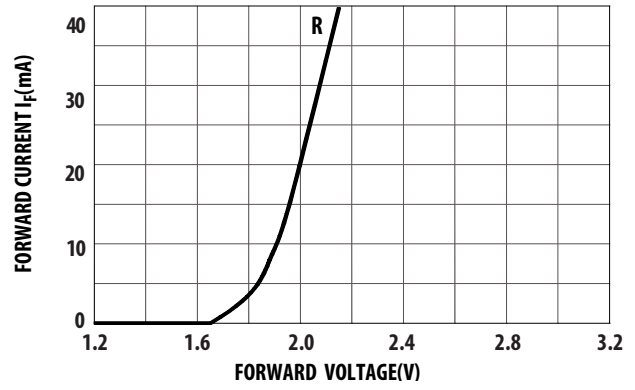


Figure 4. Forward Current vs. Forward Voltage

Orange

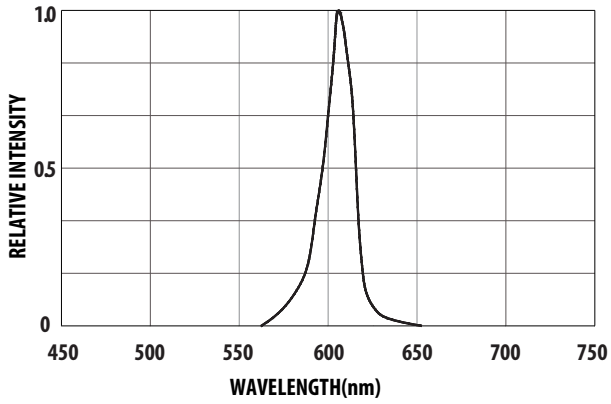


Figure 1. Relative Intensity vs. Wavelength

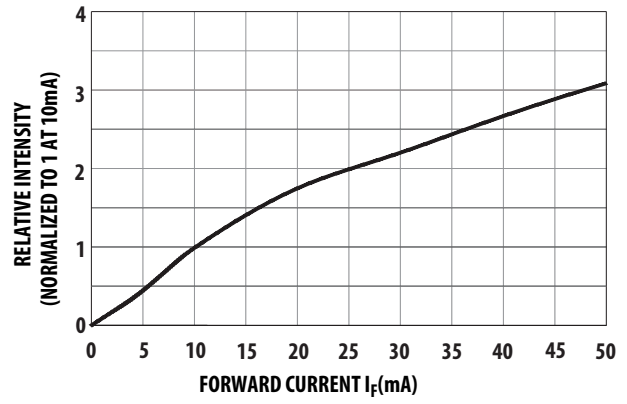


Figure 2. Relative Intensity vs. Forward Current

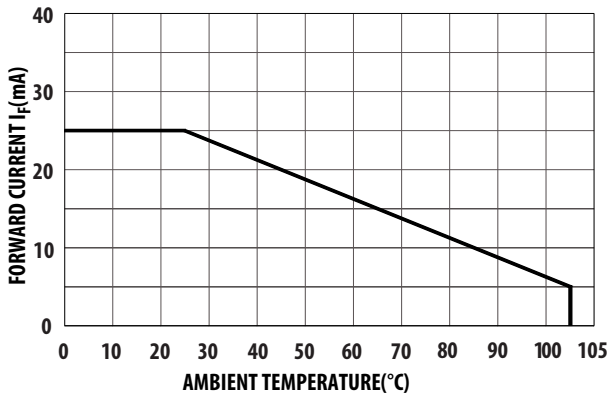


Figure 3. Allowable DC Current vs. Ambient Temperature

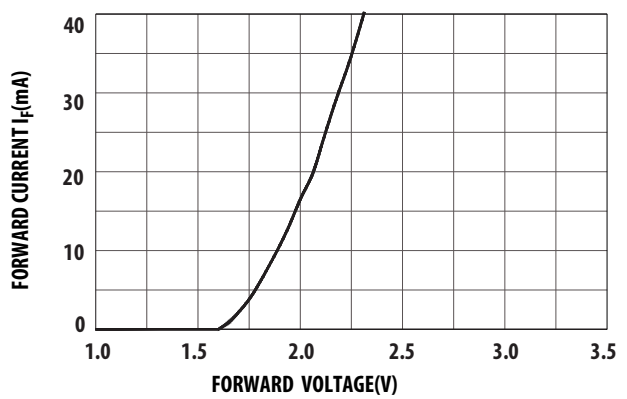


Figure 4. Forward Current vs. Forward Voltage

Intensity Bin Limits (mcd)

Green

IV Bin Category	Min.	Max
M	5.401	8.600
N	8.601	13.700
P	13.701	21.800
Q	21.801	34.700

Tolerance: ±15%

Yellow / Red / Orange

IV Bin Category	Min.	Max
N	8.601	13.700
P	13.701	21.800
Q	21.801	34.700
R	34.701	55.200

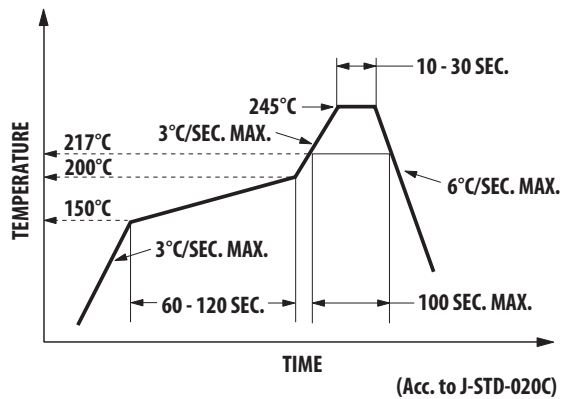
Tolerance: ±15%

Note:

- Bin categories are established for classification of products. Products may not be available in all categories. Please contact your Avago representative for information on currently available bins.

SMT Soldering Profile

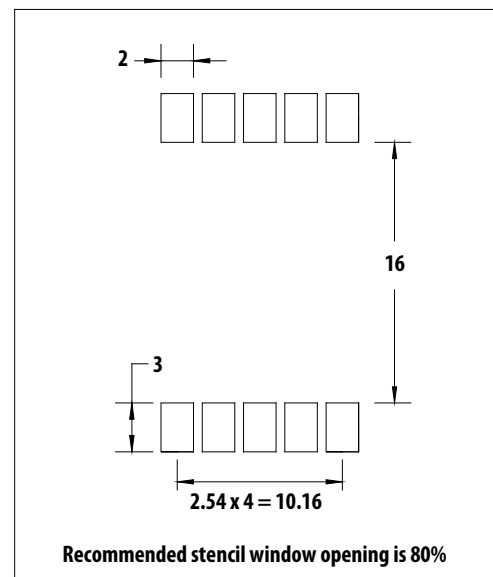
Pb free reflow soldering Profile



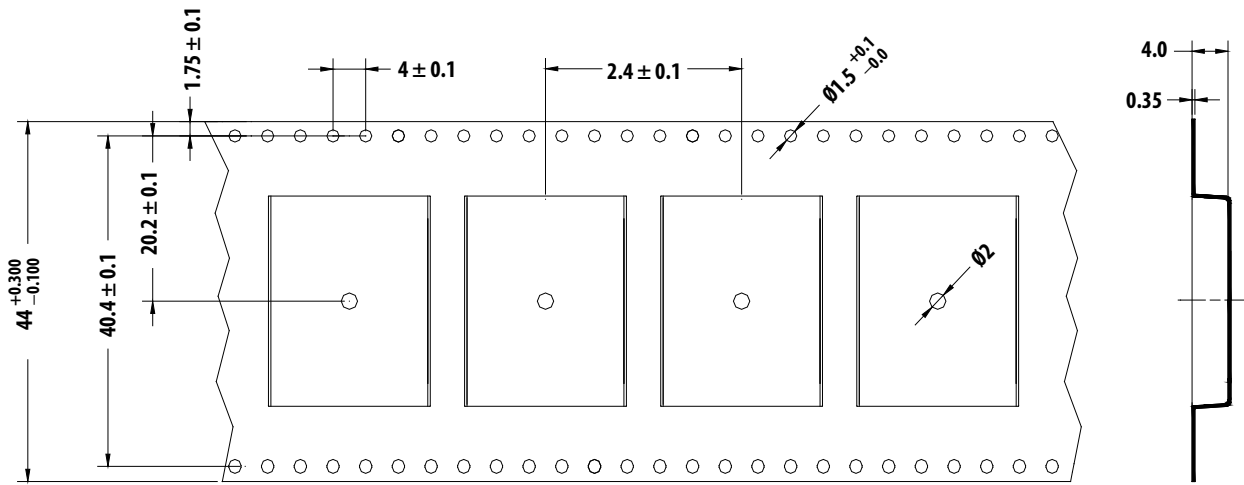
Notes:

- The peak temperature refers to the peak package body temperature.
- Number of reflow process shall be limited to maximum 2 times only. Cooling process to normal temperature is required between first and second soldering process.

Recommended soldering pattern (unit: mm)



Tape specification (unit: mm)



For product information and a complete list of distributors, please go to our web site: www.avagotech.com

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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