

MU04 Series

Single Color / Light Bar Module

特長

発光寸法 (外形寸法)	6 x 19 mm (7 x 20 mm) (L x W)
製品の特長	・ 発光色は緑色・黄色・橙色・赤色の単色発光タイプ
ピーク発光波長	Green : 555 nm (5101,5105) : 560 nm (5102) Yellow : 570 nm (4101,4105) Orange : 605 nm (3101,3105) Red : 660 nm (2101,2105)
素子材質	Green, Yellow : GaP Orange : GaAsP Red : GaAlAs
はんだ付け方法	半田ディップ、マニュアルはんだ実装に対応
ESD	2kV以上 (HBM法)
出荷形態	袋を使用

推奨用途

- ・ 家電、OA/FA、その他一般用途

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発光色バリエーション

製品名	材質	発光色	モールド樹脂色	発光光度 ^{※1} I _v (mcd)			チップ数
				MIN.	TYP.	I _F	
MU04-5101	GaP	緑色	緑色	8	16	20	3
MU04-5105	GaP		乳白色	8	16	20	3
MU04-5102	GaP		緑色	10	20	20	3
MU04-4101	GaP	黄色	黄色	15	32	20	3
MU04-4105	GaP		乳白色	15	32	20	3
MU04-3101	GaAsP	橙色	橙色	8	16	20	3
MU04-3105	GaAsP		乳白色	8	16	20	3
MU04-2101	GaAlAs	赤色	赤色	15	32	20	3
MU04-2105	GaAlAs		乳白色	15	32	20	3

※1 発光光度：3チップ

絶対最大定格

(Ta=25°C)

項目	記号	絶対最大定格										単位
		5101	5105	5102	4101	4105	3101	3105	2101	2105		
許容損失 ^{※2}	P _d	190	190	225	225	225	190	190	180	180	mW	
順電流	I _F	25	25	30	30	30	25	25	30	30	mA	
パルス順電流 ^{※3}	I _{FRM}	60	60	60	60	60	60	60	60	60	mA	
電流低減率(Ta=25°C以上)	ΔI _F	0.33	0.33	0.40	0.40	0.40	0.33	0.33	0.40	0.40	mA/°C	
	ΔI _{FRM}	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	mA/°C	
逆電圧	V _R	4	4	4	4	4	4	4	4	4	V	
動作温度	T _{opr}	-40~+85										°C
保存温度	T _{stg}	-40~+85										°C

※2 許容損失：3チップ, その他の項目：1チップ

※3 I_{FRM}の測定条件：Pulse Width ≤ 2ms, Duty ≤ 1/5

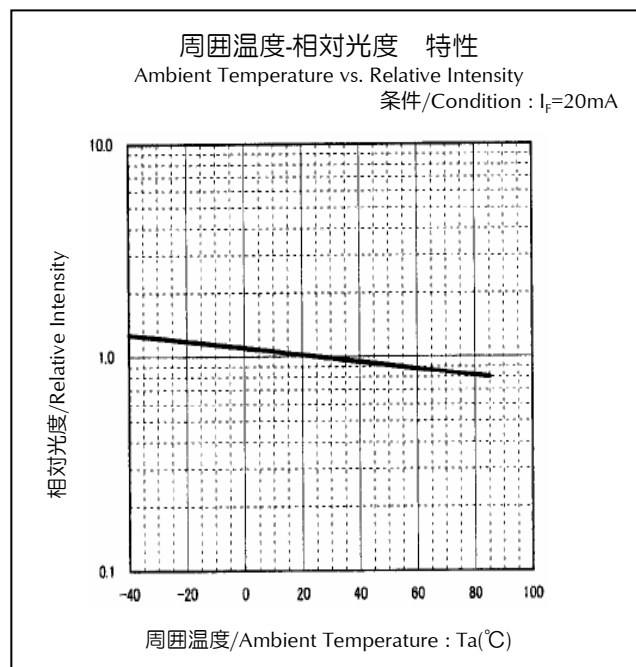
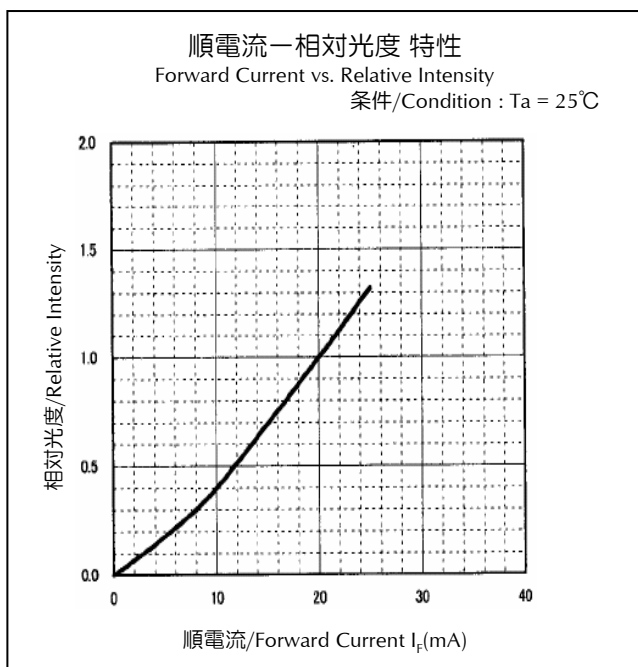
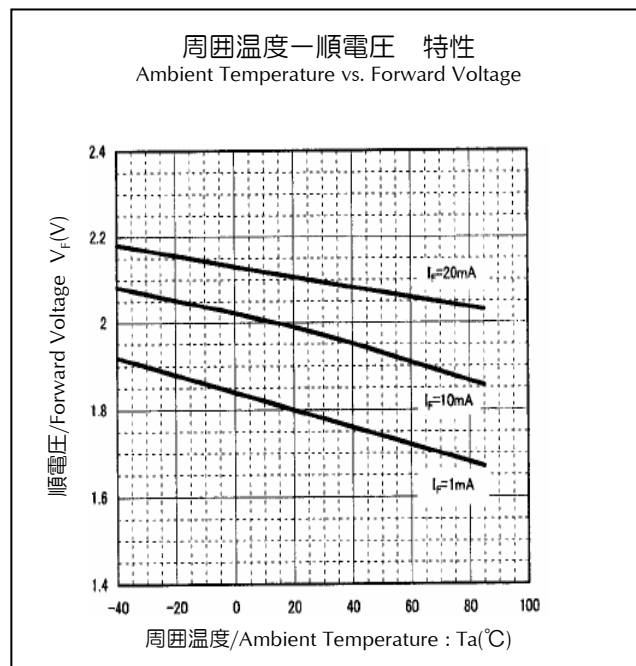
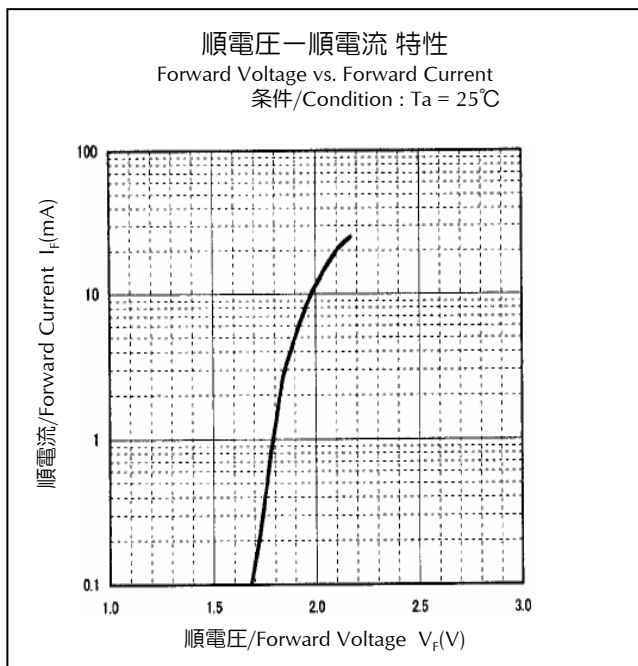
電氣的・光学的特性

(Ta=25°C)

項目	条件	記号		特性値										単位
				5101	5105	5102	4101	4105	3101	3105	2101	2105		
順電圧	I _F =20mA	V _F	TYP.	2.2	2.2	2.1	2.1	2.1	2.2	2.2	1.7	1.7	V	
			MAX.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0		
逆電流	V _R =4V	I _R	MAX.	100	100	100	100	100	100	100	100	100	μA	
ピーク発光波長	I _F =20mA	λ _p	TYP.	555	555	565	570	570	605	605	660	660	nm	
スペクトル半値幅	I _F =20mA	Δλ	TYP.	30	30	30	30	30	30	30	30	30	nm	

※ 上記の項目：1チップ

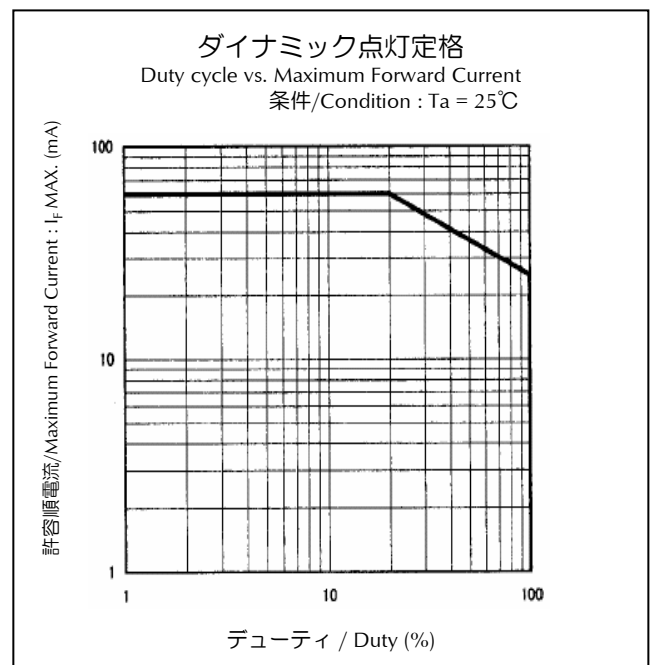
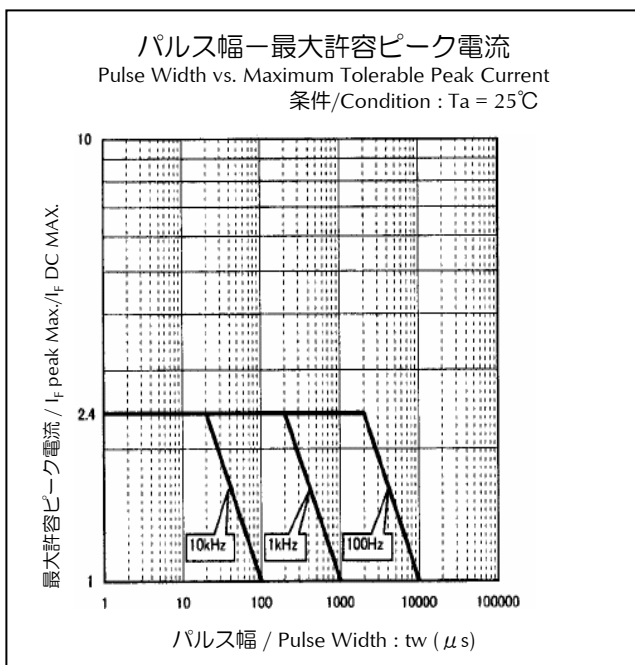
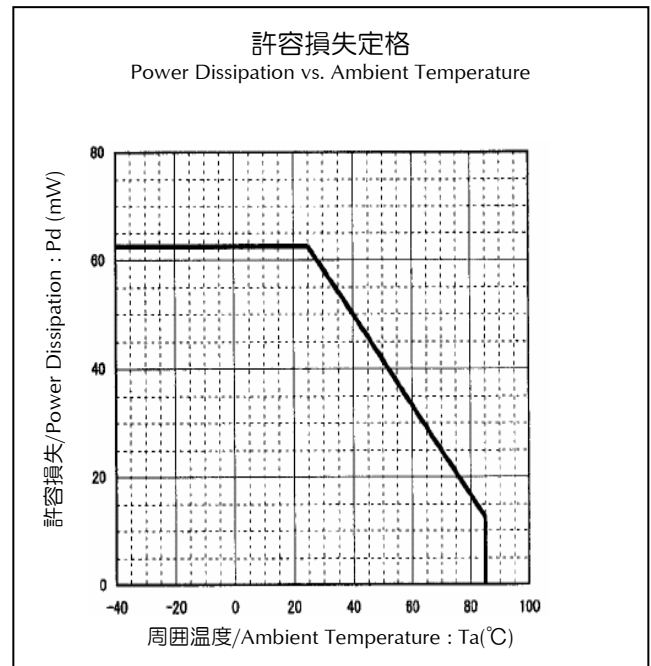
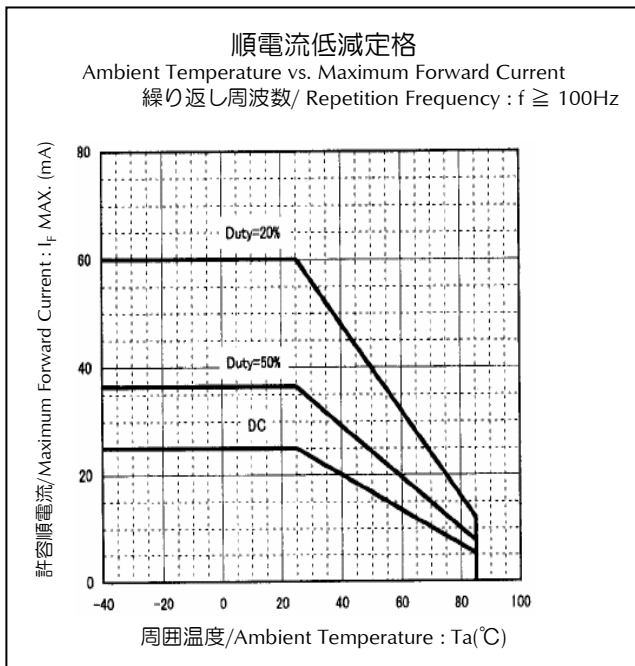
特性グラフ(5101/5105)



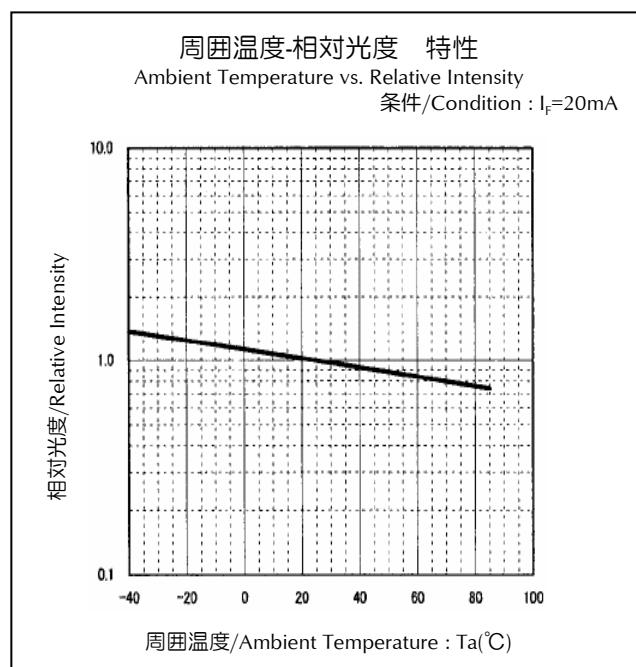
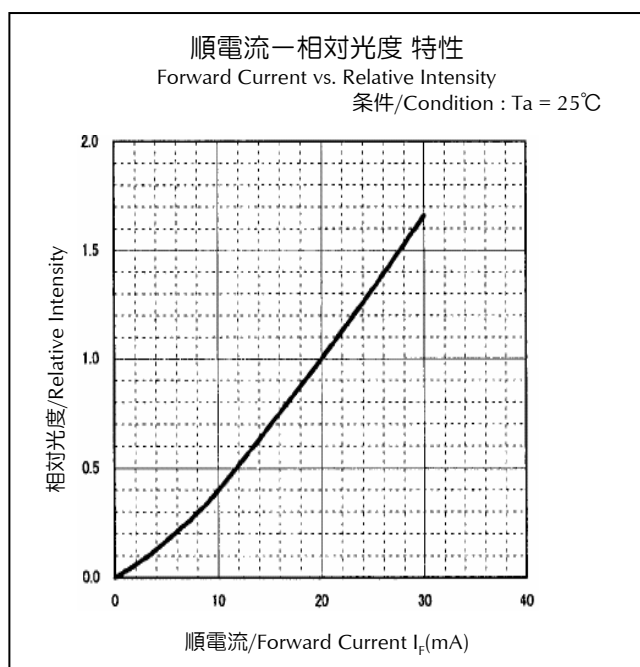
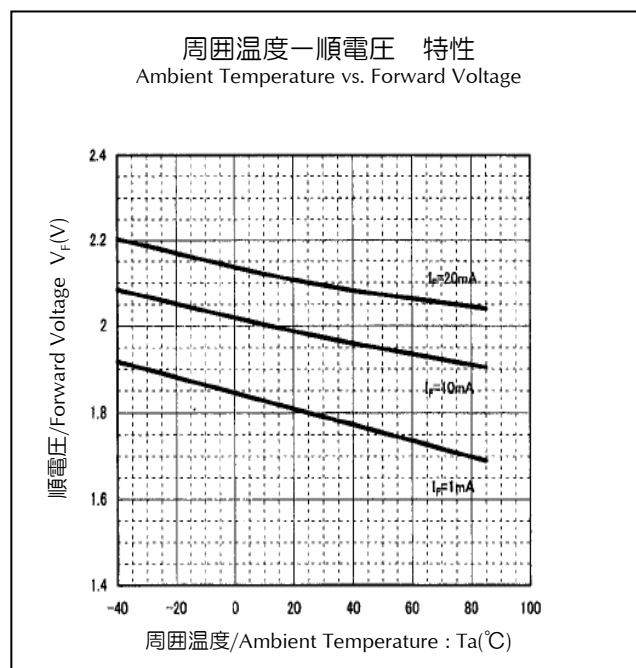
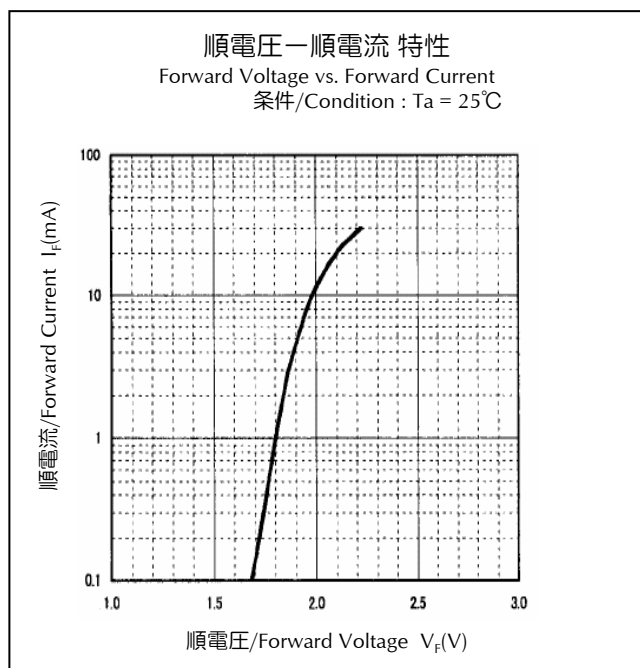
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特性グラフ(5101/5105)



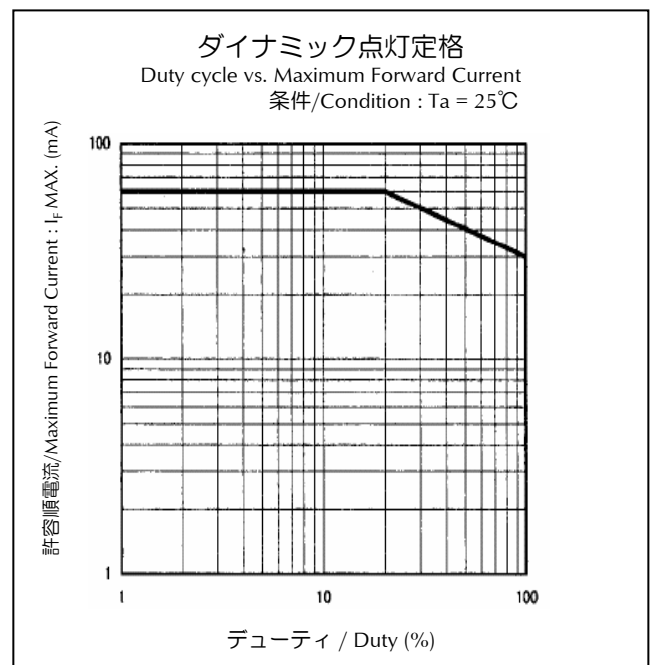
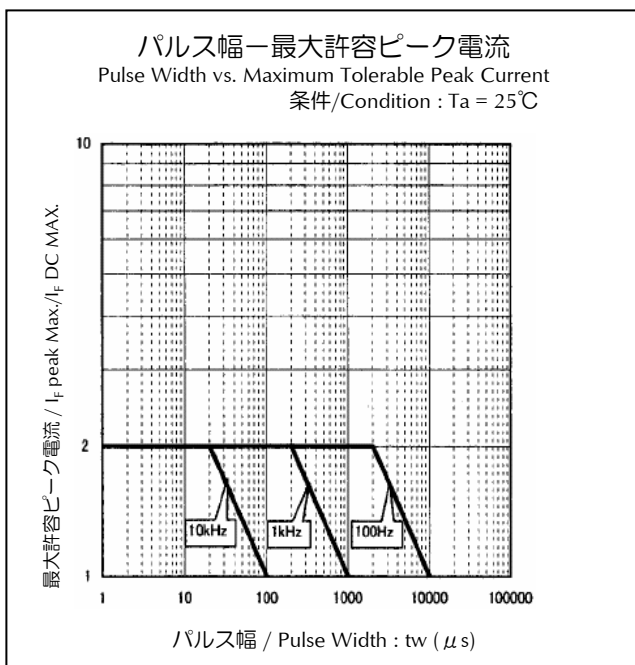
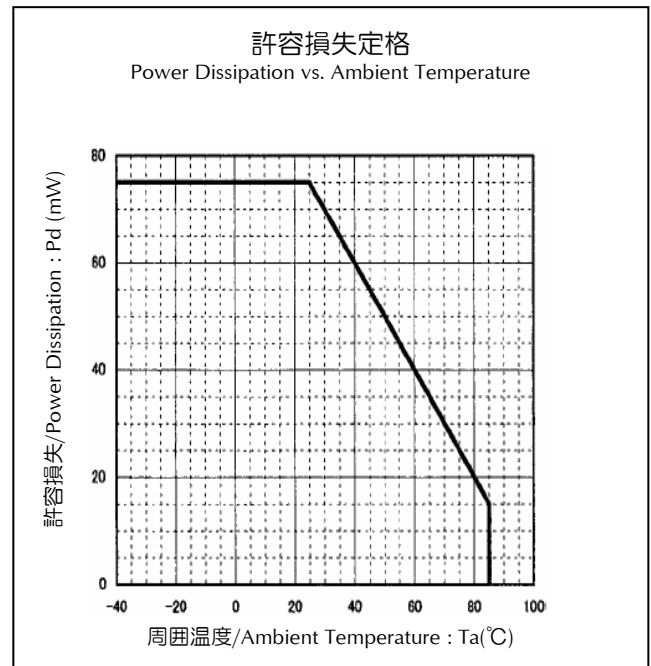
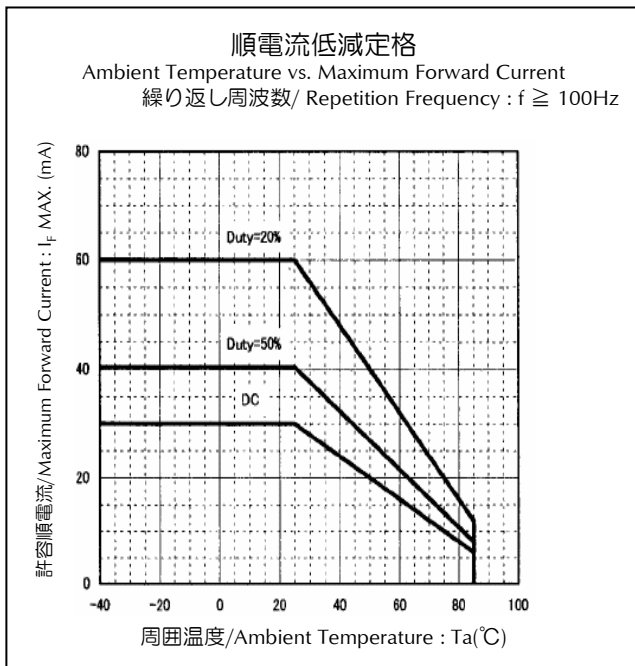
特性グラフ(5102)



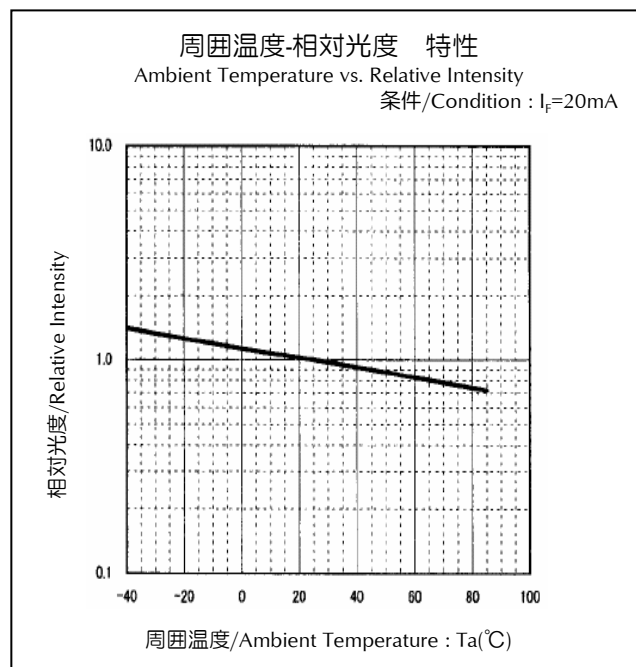
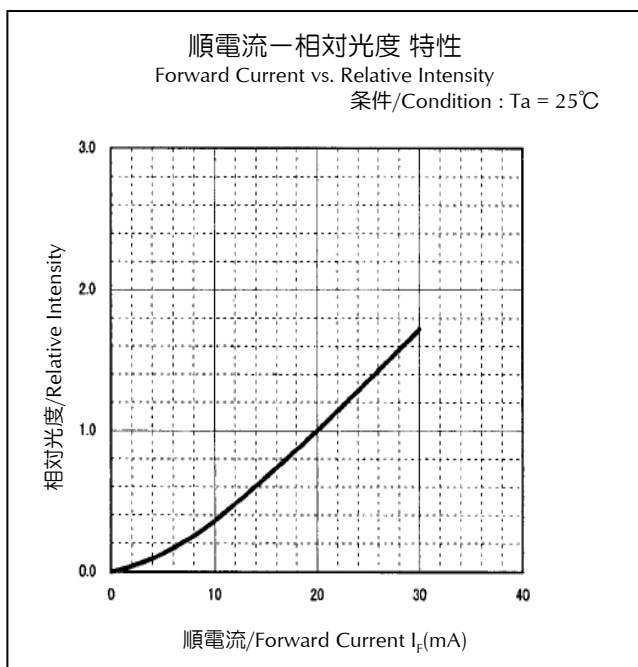
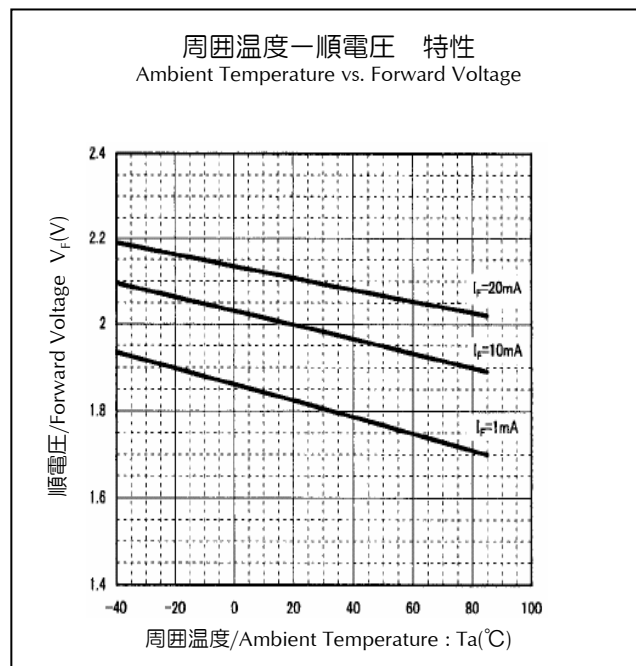
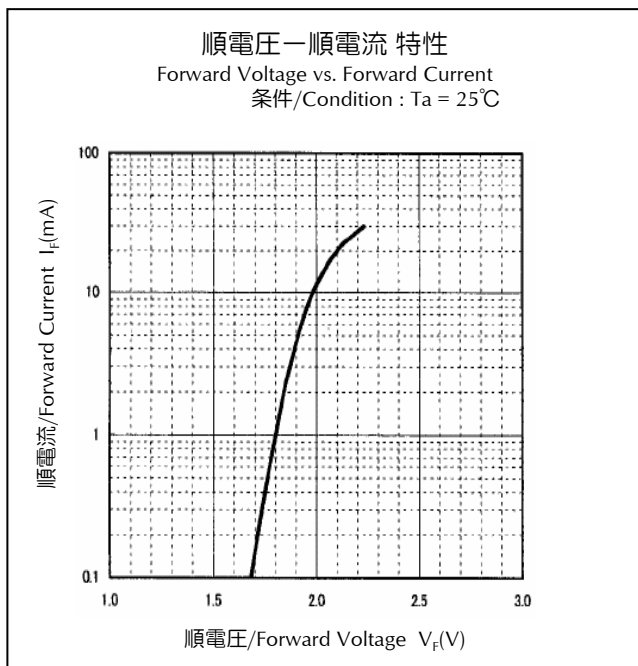
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特性グラフ(5102)



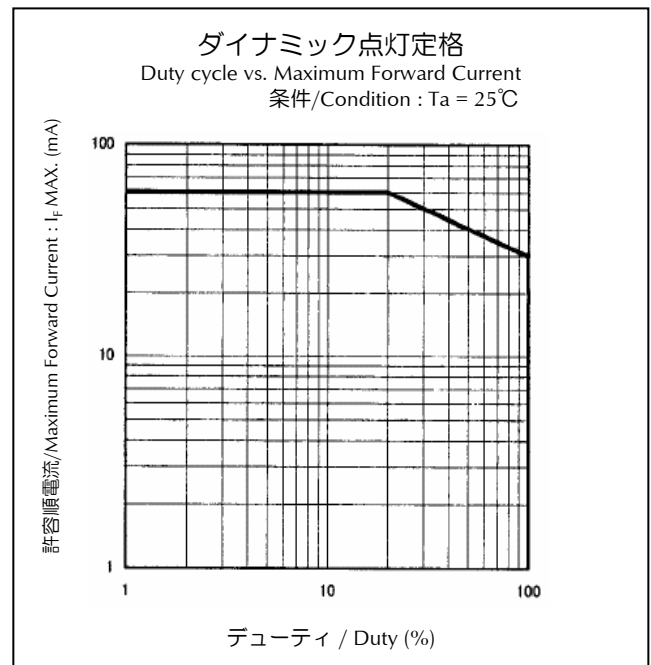
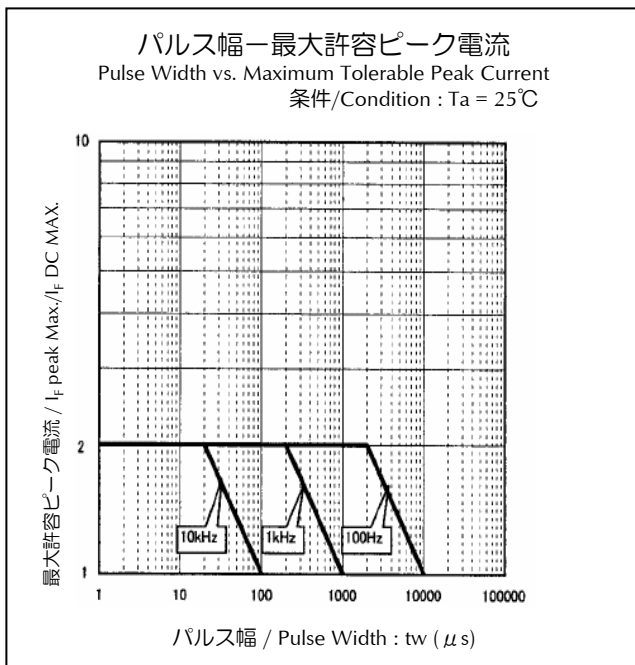
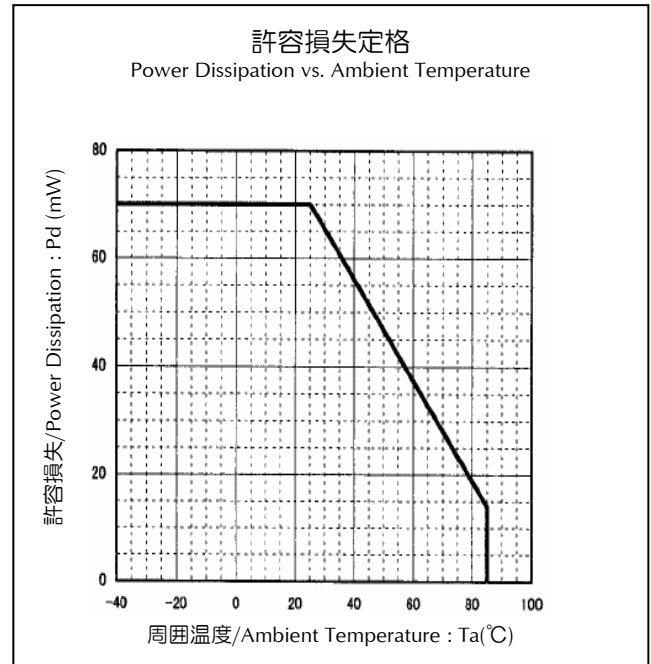
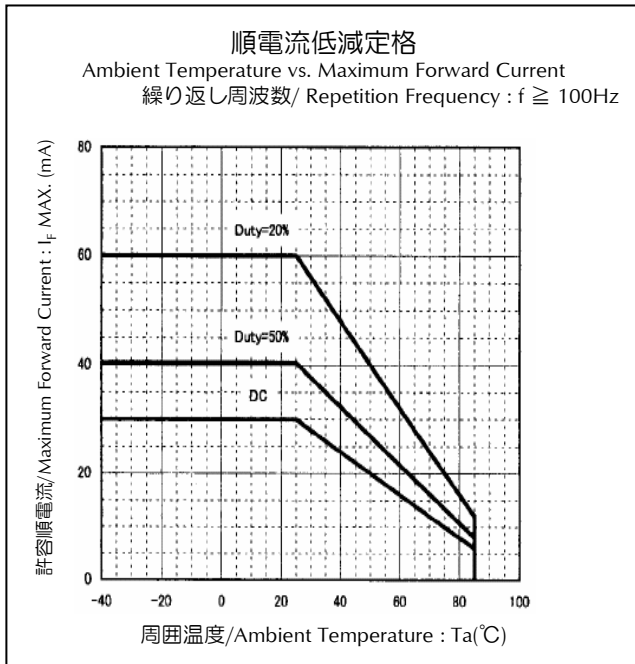
特性グラフ(4101/4105)



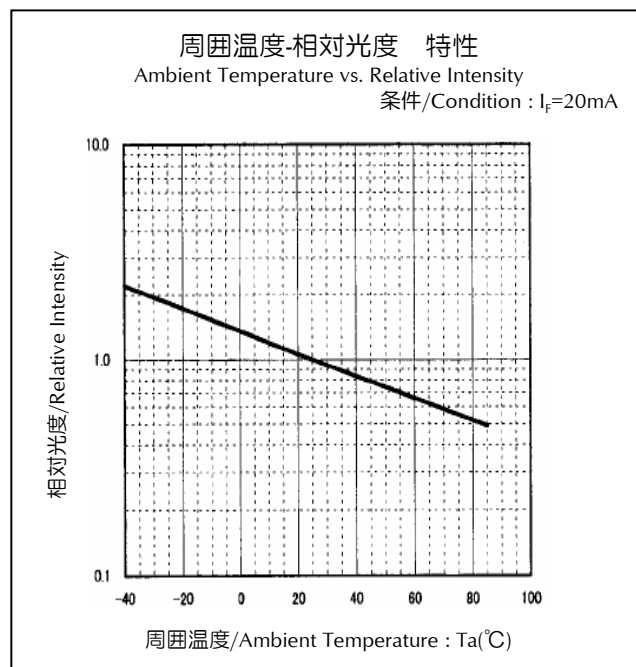
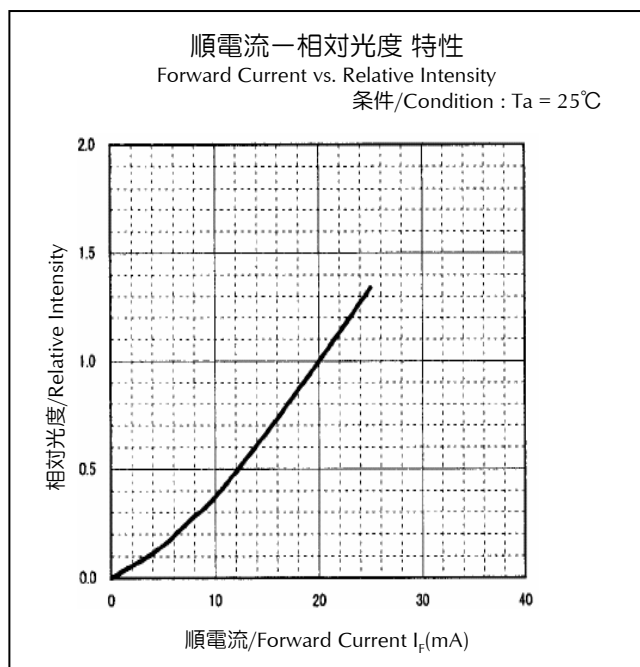
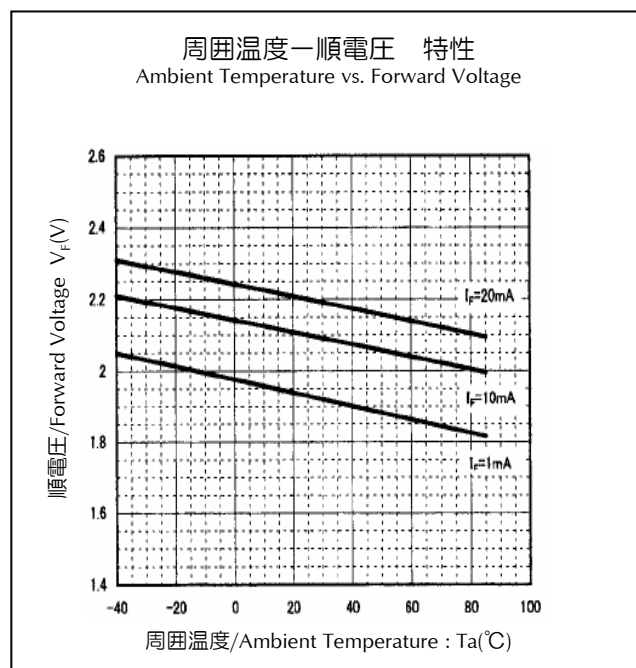
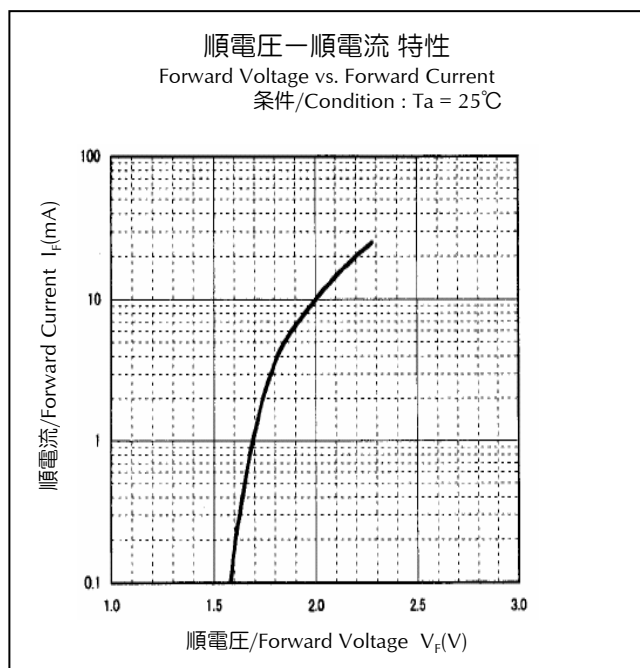
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特性グラフ(4101/4105)



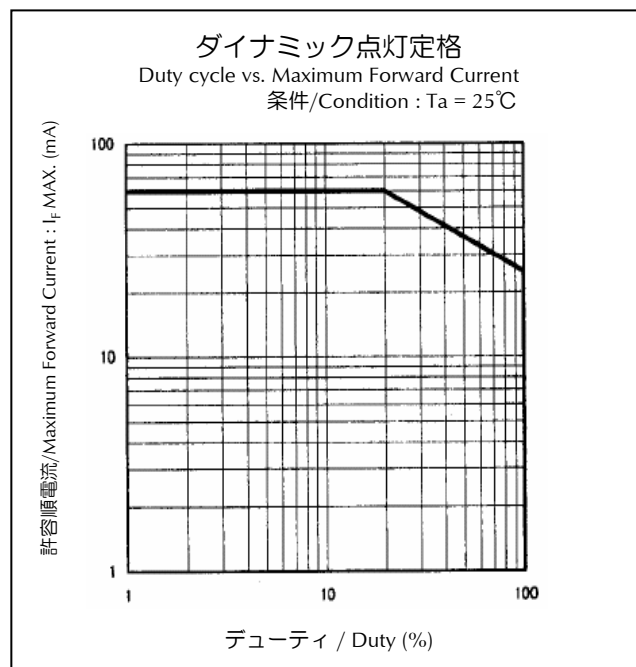
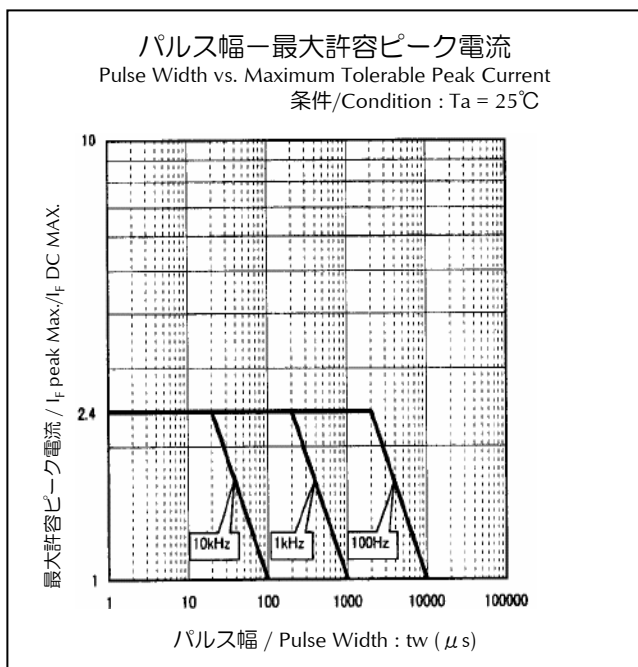
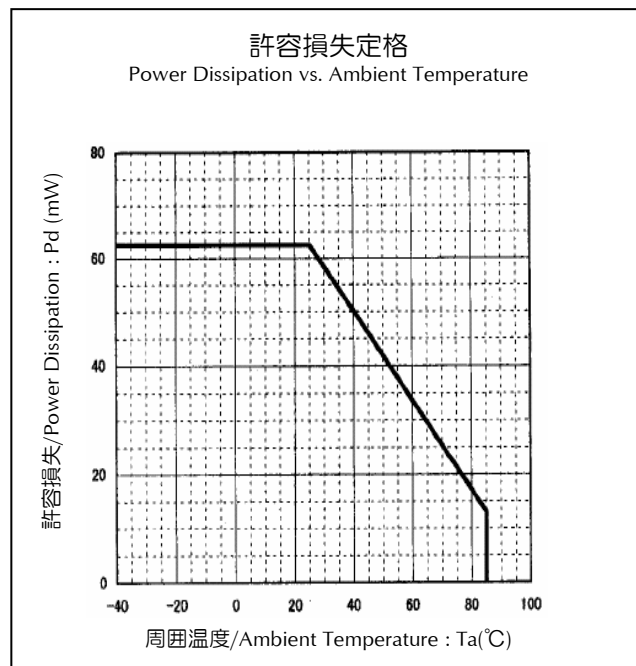
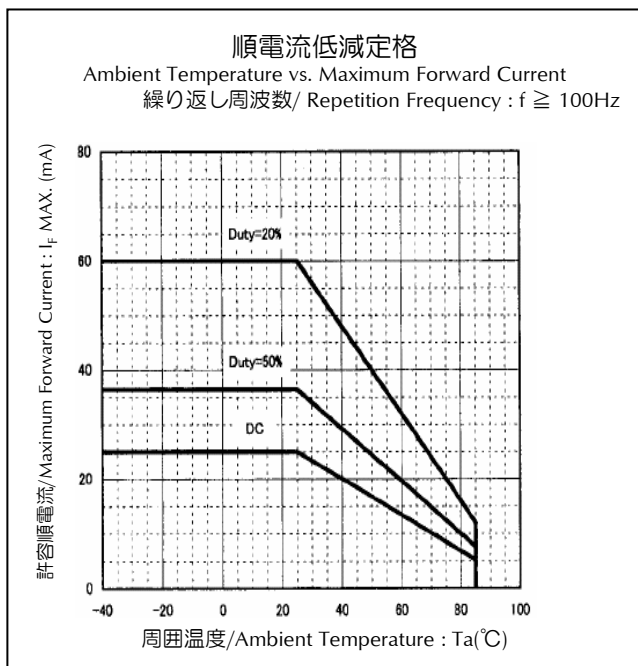
特性グラフ(3101/3105)



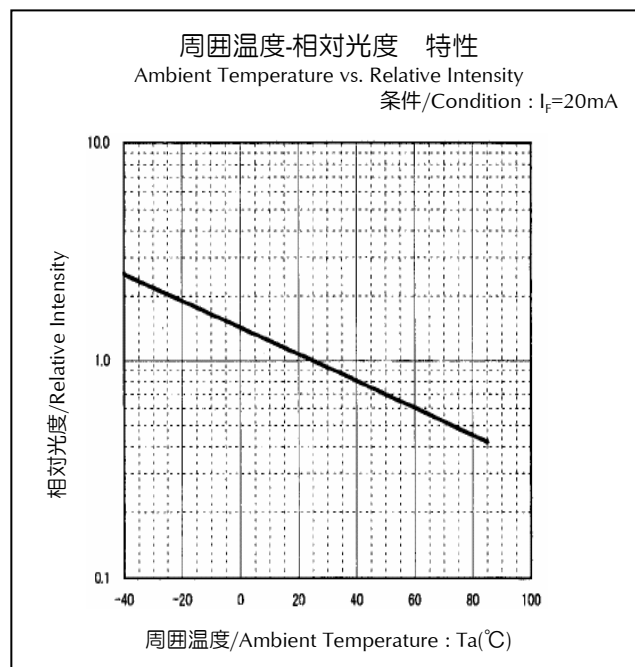
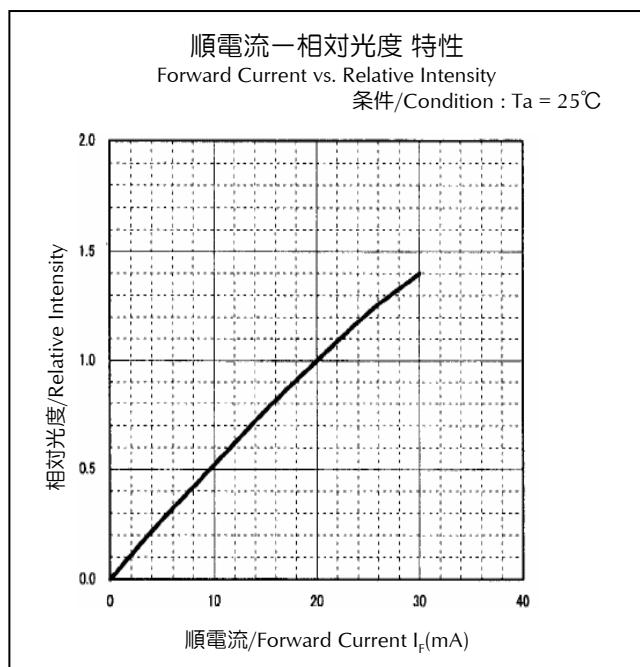
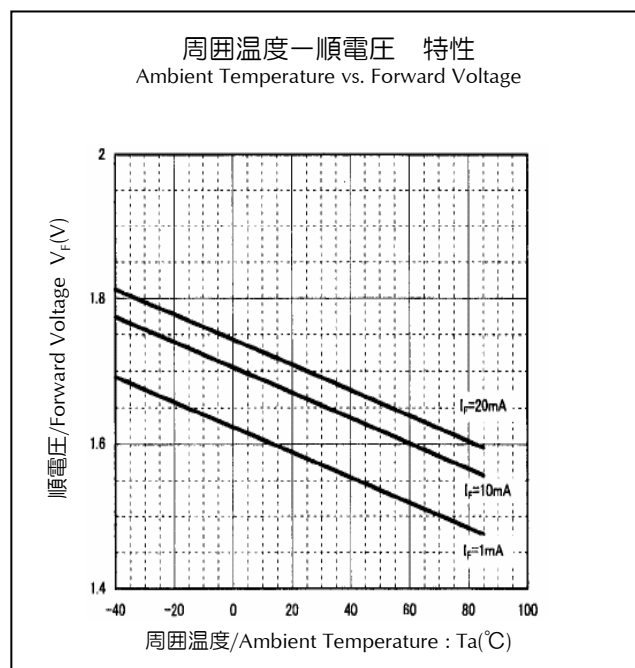
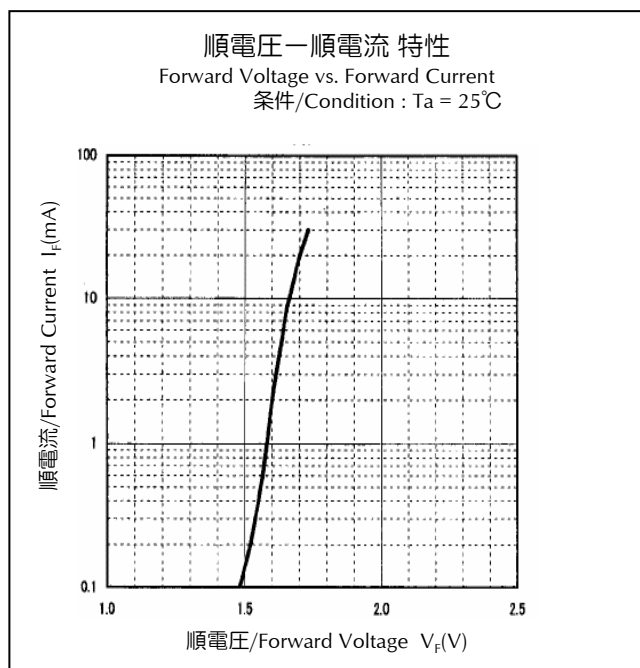
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特性グラフ(3101/3105)



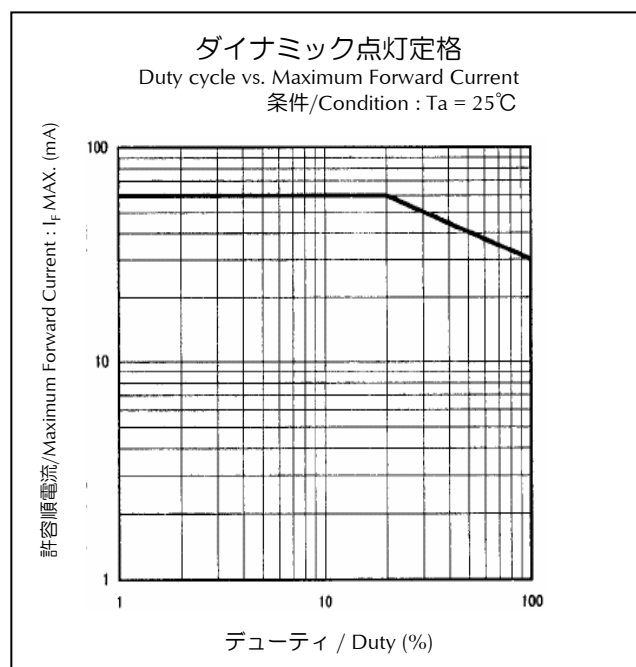
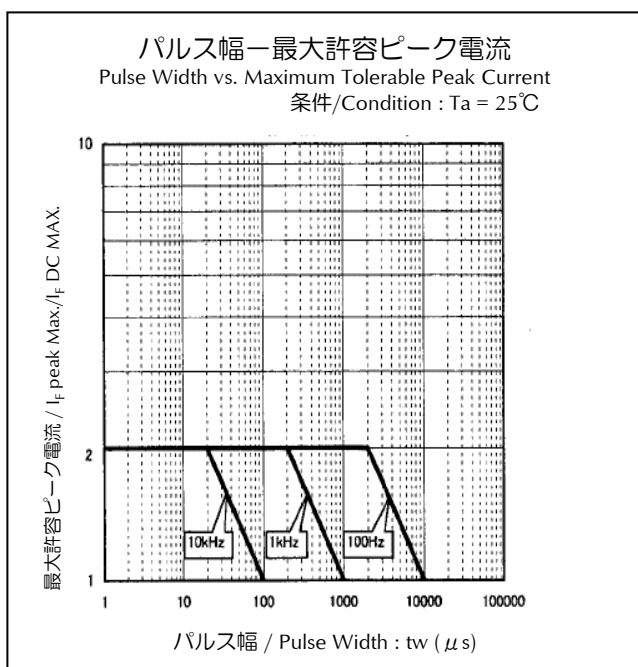
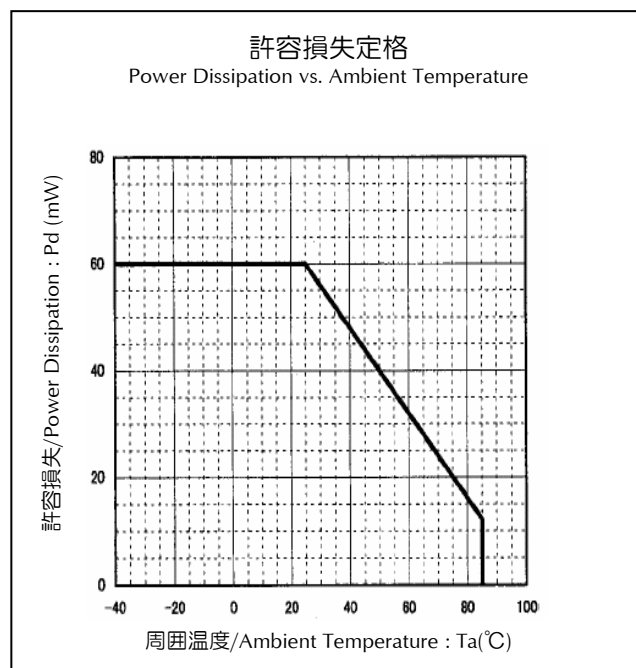
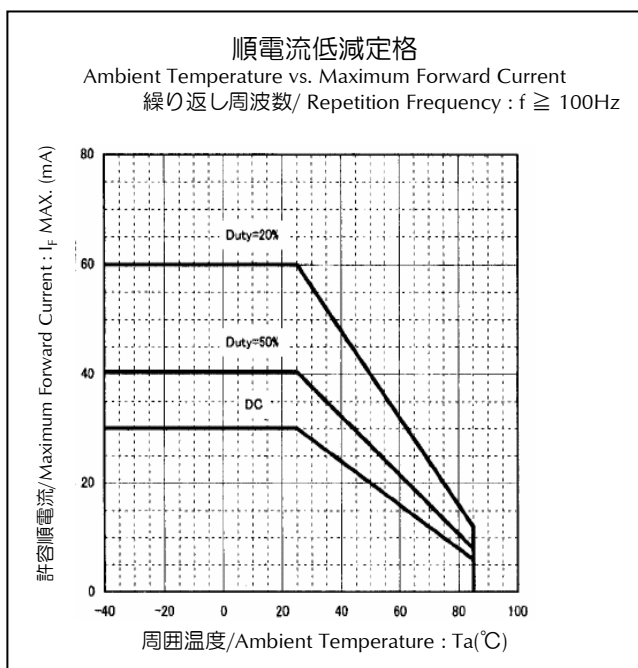
特性グラフ(2101/2105)



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特性グラフ(2101/2105)



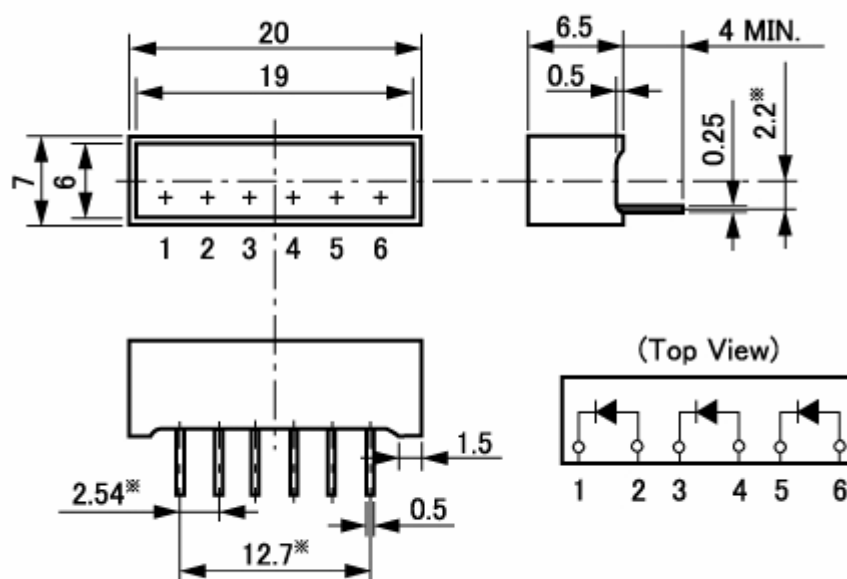
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外形寸法

(単位：mm)

(寸法公差：±0.25 mm)



- ※部の寸法は樹脂根元の寸法とする。