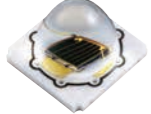
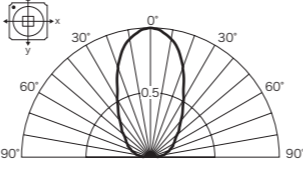
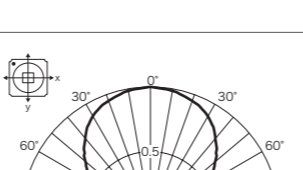
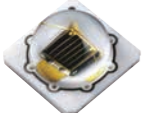
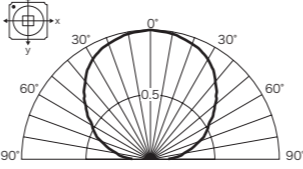
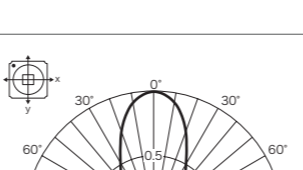

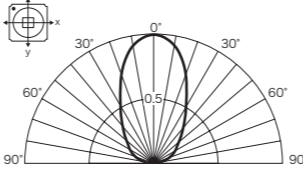
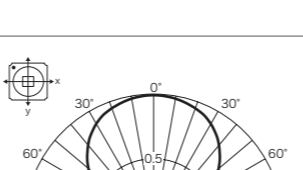
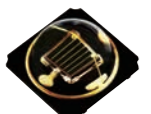
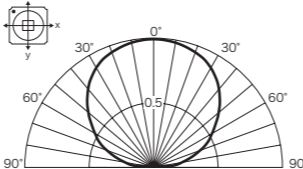
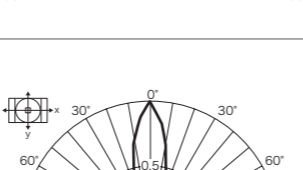
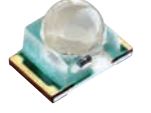
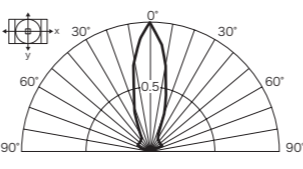

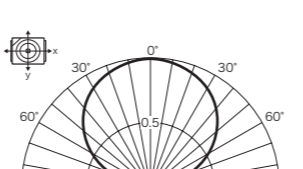
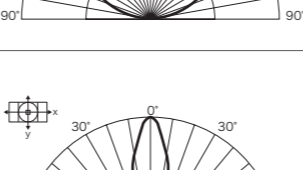

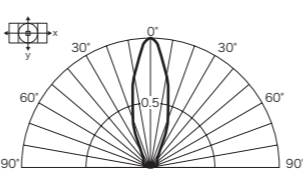
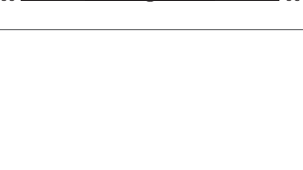


IR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics									熱的特性/Thermal characteristics		絶対最大定格/Absolute maximum ratings								標準梱包 数量 Standard qty. /Reel	WEB		
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射強度 Radiant intensity $I_E$ Min. Typ.		光出力 Output power $P_o$ Typ.	遮断周波数 Cut-off frequency $f_c$ Typ.	応答速度 Response time tr/tf Typ.	順電圧 Forward voltage $V_F$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - soldering point] $R_{th(j-s)}$ Typ. Max.	順電流 Forward current $I_F$	順電流低減率 Forward current reduction rate $\Delta I_F$ Derating start temp.		パルス順電流 Pulse forward current $I_{FRM}$ ※1	パルス順電流低減率 Pulse forward current reduction rate※1 $\Delta I_{FRM}$ Derating start temp.		ジャンクション温度 Junction temperature $T_j$			動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg
単位 (Units)		nm	mW/sr		mW	MHz	ns	V		deg.	-	mA	°C/W	mA	mA/°C °C		mA	mA/°C °C		°C	°C	°C	pcs.	
 41.0mg	MGN1105MS	855	390	530	1,100	-	15 / 15	1.8	2.4	60 / 60		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500
	MFN1105MS	945	280	440	950	-	15 / 15	1.5	2.1	60 / 60		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500
 38.0mg	MGN1106MS	855	210	280	1,100	-	15 / 15	1.8	2.4	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500
	MFN1106MS	945	140	230	950	-	15 / 15	1.5	2.1	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500
 28.0mg	MGN1107MS	855	350	530	1,100	-	15 / 15	1.8	2.4	60 / 60		1,000	5	7	1,500	-	-	5,000	-	-	125	-40~+125	-40~+125	500
	MFN1107MS	945	250	440	950	-	15 / 15	1.5	2.1	60 / 60		1,000	5	7	1,500	-	-	5,000	-	-	125	-40~+125	-40~+125	500
 26.0mg	MGN1108MS	855	190	280	1,100	-	15 / 15	1.8	2.4	120 / 120		1,000	5	7	1,500	-	-	5,000	-	-	125	-40~+125	-40~+125	500
	MFN1108MS	945	130	230	950	-	15 / 15	1.5	2.1	120 / 120		1,000	5	7	1,500	-	-	5,000	-	-	125	-40~+125	-40~+125	500
 9.0mg	JGN1105H	850	25	50	30	-	13 / 13	1.45	1.65	30 / 30		50	-	-	120	2.40	60	1,200	24	60	-	-40~+100	-40~+100	2,000
 33mg	JGN1104LS	850	5	9.2	35	-	13 / 13	1.5	1.75	120 / 120		50	110	-	100	2.86	85	1,000	28.6	85	120	-40~+100	-40~+120	2,000
	JFN1104LS	950	5	8.5	31	-	13 / 13	1.35	1.65	120 / 120		50	110	-	100	2.86	85	1,000	28.6	85	120	-40~+100	-40~+120	2,000
 7.81mg	TDN1105W-23	870	5.6	11	8	50※2	-	1.4	1.7	30 / 30		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,000
	TAN1105W	940	2.4	4.8	5.7	0.5※3	1,000/1,000	1.22	1.37	30 / 30		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,000

※製品画像は代表的なものです/The pictures illustrate representative products.

※1 駆動条件/Driving conditions : 0.1ms pulse 1/100 duty

※2 駆動条件/Driving conditions : I<sub>F</sub>=20mA<sub>DC</sub>+10mA<sub>PP</sub>, -3dB from 1MHz

※3 駆動条件/Driving conditions : I<sub>F</sub>=20mA<sub>DC</sub>+10mA<sub>PP</sub>, -3dB from 0.1MHz



SURFACE MOUNT LEDs

LED NUMERIC DISPLAYS

IR LEDs / PHOTODETECTORS / OPTICAL SENSORS

UV LEDs

INFORMATION

IR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics										熱的特性/Thermal characteristics		絶対最大定格/Absolute maximum ratings								標準梱包 数量 Standard qty. /Reel	WEB															
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射強度 Radiant intensity $I_E$ Min. Typ.	光出力 Output power $P_o$ Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr/ta Typ.	順電圧 Forward voltage $V_F$ Typ. Max.	指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - soldering point] $R_{th(j-s)}$ Typ. Max.	順電流 Forward current $I_F$	順電流低減率 Forward current reduction rate $\Delta I_F$ Derating start temp.	パルス順電流 Pulse forward current $I_{FRM}$ ※1	パルス順電流低減率 Pulse forward current reduction rate※1 $\Delta I_{FRM}$ Derating start temp.	ジャンクション温度 Junction temperature $T_J$	動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg	単位 (Units)	nm	mW/sr			mW	MHz	ns	V	deg.	-	mA	°C/W	mA	mA/°C	°C	mA	mA/°C	°C	°C
L3.0 x W1.5 x H1.5	HDN1102W	850	2.2 3.2	8.5	20 <sup>※2</sup>	-	1.45 1.8	60 / 60		20	-	-	50	0.67 25	300	4 25	-	-30~+85	-40~+100	2,500																		
7.8mg	HAN1102W-1	940	0.7 1.0	5.7	0.5 <sup>※3</sup>	1,000/1,000	1.2 1.4	75 / 90		20	-	-	50	0.67 25	300	4 25	-	-30~+85	-40~+100	2,500																		
L3.0 x W1.5 x H1.5	TDN1101W	870	0.6 1.2	8.5	50 <sup>※2</sup>	-	1.4 1.7	135 / 145		20	-	-	50	0.67 25	300	4 25	-	-30~+85	-40~+100	2,500																		
L1.64 x W0.84 x H1.26	VTAN1116P	940	1.8 2.8	5.2	-	1,000/1,000	1.25 1.45	40 / 40		20	-	-	50	1.25 60	300	7.5 60	-	-40~+85	-40~+100	3,000																		
L1.6 x W0.8 x H0.7	TDN1111C	870	1 1.3	8	50 <sup>※2</sup>	-	1.4 1.7	125 / 125		20	-	-	50	0.67 25	300	4 25	-	-30~+85	-40~+100	4,000																		
1.4mg	VTAN1111C	940	0.64 0.7	4.3	-	1,000/1,000	1.22 1.37	145 / 145		20	-	-	50	1.25 60	300	7.5 60	-	-40~+85	-40~+100	4,000																		

※製品画像は代表的なものです/The pictures illustrate representative products.  
 ※1 駆動条件/Driving conditions : 0.1ms pulse 1/100 duty  
 ※2 駆動条件/Driving conditions :  $I_F=20mA_{DC}+10mA_{P-P}$ , -3dB from 1MHz  
 ※3 駆動条件/Driving conditions :  $I_F=20mA_{DC}+10mA_{P-P}$ , -3dB from 0.1MHz



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