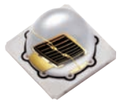
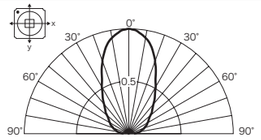
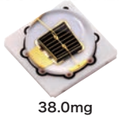
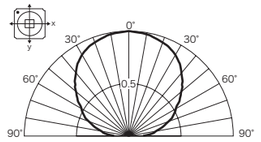
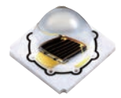
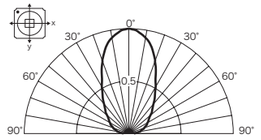
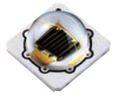
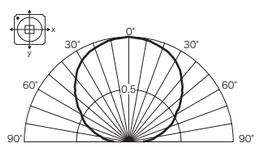
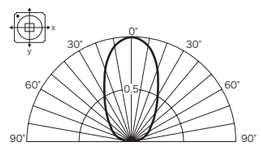
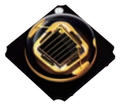
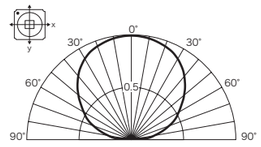
IR LEDs

RoHS2 Pb-free HEAT

Ta=25℃

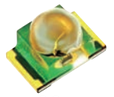
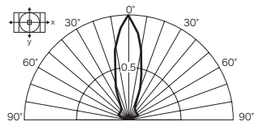
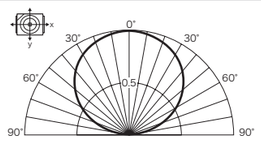
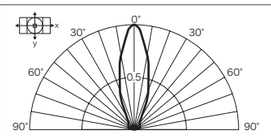
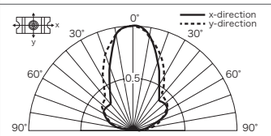
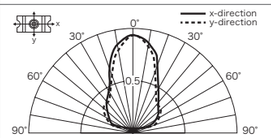
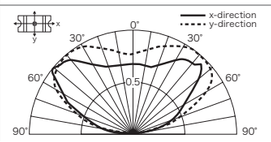
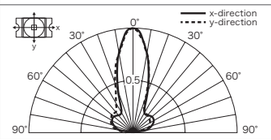
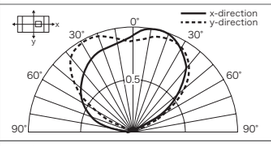
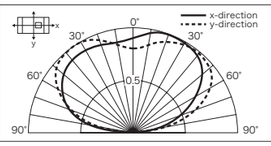
パッケージ Package	品名 Part name	電気的光学的特性／Electro-optical characteristics										選別電流 Sorting current I_F	熱的特性／Thermal characteristics		絶対最大定格／Absolute maximum ratings					標準梱包数量 Standard qty. /Reel	WEB
		ピーク発光波長 Peak wavelength λp Typ.	放射強度 Radiant intensity I_e Min.	放射強度 Radiant intensity I_e Typ.	放射束 Radiant flux ϕ_e Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr/tf Typ.	順電圧 Forward voltage V_F Typ.	順電圧 Forward voltage V_F Max.	指向半値角 Half-intensity angle $2\theta_{1/2}$ (θx/θy)	指向特性 Spatial distribution		熱抵抗 【ジャンクション-はんだ付け位置】 Thermal resistance 【Junction - solder point】 $Rth_{(j-s)}$ Typ.	熱抵抗 Max.	順電流 Forward current I_F	パルス順電流 Pulse forward current I_{FRM} ※1	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	℃/W		mA	mA	℃	℃	℃	pcs.	
L3.8 x W3.8 x H2.8  41.0mg	MHN1105MS	945	620	750	1,630	–	15 / 15	2.9	3.2	60 / 60		1,000	5	7	1,000	5,000	125	–40～+125	–40～+125	500	
L3.8 x W3.8 x H2.1  38.0mg	MHN1106MS	945	310	385	1,760	–	15 / 15	2.9	3.2	120 / 120		1,000	5	7	1,000	5,000	125	–40～+125	–40～+125	500	
L3.8 x W3.8 x H2.8  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	
L3.8 x W3.8 x H2.1  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	
L3.8 x W3.8 x H2.8  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	
L3.8 x W3.8 x H2.1  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	

※製品画像は代表的なものです／All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.
※1 駆動条件／Driving conditions：0.1ms pulse 1/100 duty

IR LEDs

RoHS2 Pb-free HEAT

Ta=25℃

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 λp Typ.	放射強度 Radiant intensity I_e Min.	放射強度 Radiant intensity I_e Typ.	放射束 Radiant flux ϕ_e Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr／tf Typ.	順電圧 Forward voltage V_F Typ.	順電圧 Forward voltage V_F Max.	指向半値角 Half-intensity angle 2θ1/2 (θx/θy)	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 - solder point】 $Rth_{(j-s)}$ Typ.	熱抵抗 【ジャンクション-はんだ付け位置】 Thermal resistance 【Junction - solder point】 $Rth_{(j-s)}$ Max.	順電流 Forward current I_F	順電流低減率 Forward current decrease rate ΔI_F	順電流低減率 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 decrease rate※1 ΔI_{FRM}	パルス順電流低減率 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	℃/W		mA	mA/℃	℃	mA	mA/℃	℃	℃	℃	℃	pcs.	
L2.5 x W1.6 x H1.85  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	
	JFN1105H	950	22.5	45	27	–	13 / 13	1.35	1.65	30 / 30		50	–	–	120	2.40	60	1,200	24	60	–	–40～+100	–40～+100	2,000	
L3.5 x W2.8 x H1.9  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	
L3.2 x W1.6 x H1.85  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	
L3.0 x W1.5 x H1.5  7.8mg	HDN1102W	850	2.2	3.2	8.5	20※2	–	1.45	1.8	60 / 60		20	–	–	50	0.67	25	300	4	25	–	–30～+85	–40～+100	2,500	
	HAN1102W-1	940	0.7	1.0	5.7	0.5※3	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  7.8mg	TDN1101W	870	0.6	1.2	8.5	50※2	–	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  1.4mg	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  1.4mg	TDN1111C	870	1	1.3	8	50※2	–	1.4	1.7	125 / 125		20	–	–	50	0.67	25	300	4	25	–	–30～+85	–40～+100	4,000	
	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／All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.
※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