

Series Name	Package Size (mm)	Viewing Angle (°)	Luminous Intensity (cd/steradian)		Part Number		Typical Emitting Wavelength (nm)		Lens Type	Maximum Ratings			Package Dimension Number	Applications
			Min	Typ	No rank specified	Two ranks specified	Ad (nm)	Ap (nm)		Characterized Temperature (°C)	DC forward current (mA)	Pulse forward current (mA)		
TL®E Series	ø5	7°	4760	12000	TLRME20CP(F)	—	626	638	Red, transparent	ø3	50	200	a5-1	Pilot lamps (narrow range)
			2720	9000	TLSE20TP(F)	—	613	623	Transparent	ø3	50	200	a5-1	
			2720	8000	TLRME20TP(F)	—	626	638	Transparent	ø3	50	200	a5-1	
			2720	7000	TLRE20TP(F)	—	630	644	Transparent	ø3	50	200	a5-1	
		8°	1630	8000	TLSE160P(F)	—	613	623	Transparent	ø1	50	200	a5-1	
			850	3000	TLRE160AP(F)	TLRE160AP(TU,F)	630	644	Transparent	ø1	50	200	a5-1	
		20°	850	3000	TLSE17TP(F)	—	613	623	Transparent	ø3	50	200	a5-2	
			850	2400	TLRME17TP(F)	—	626	638	Transparent	ø3	50	200	a5-2	
			478	1500	TLRE17TP(F)	—	630	644	Transparent	ø3	50	200	a5-2	
			85	270	TLRE138P(F)	—	630	644	Red, diffusing	ø1	50	200	a5-2	
		22°	478	1900	TLSE157P(F)	TLSE157P(ST,F)	613	623	Transparent	ø1	50	200	a5-2	
			272	1000	TLRE157AP(F)	TLRE157AP(RS,F)	630	644	Transparent	ø1	50	200	a5-2	
		25°	478	1500	TLSE16TP(F)	—	613	623	Transparent	ø3	50	200	a5-3	Message boards Backlighting
			478	1000	TLSE16CP(F)	—	613	623	Red, transparent	ø3	50	200	a5-3	
			272	1200	TLRME16TP(F)	—	626	638	Transparent	ø3	50	200	a5-3	
			272	800	TLRE16TP(F)	—	630	644	Transparent	ø3	50	200	a5-3	
			272	800	TLRME16CP(F)	—	626	638	Red, transparent	ø3	50	200	a5-3	
			153	600	TLRE16CP(F)	—	630	644	Red, transparent	ø3	50	200	a5-3	
		30°	153	500	TLRME17DP(F)	—	626	638	Red, diffusing	ø3	50	200	a5-2	
			272	900	TLSE158P(F)	TLSE158P(RS,F)	613	623	Transparent	ø1	50	200	a5-3	
			153	450	TLRE158AP(F)	TLRE158AP(PQ,F)	630	644	Transparent	ø1	50	200	a5-3	
		75°	47.8	150	TLRE25TP(F)	—	630	644	Transparent	ø3	50	200	a5-8	Backlighting (wide range)
		90°	27.2	90	TLRE263AP(F)	TLRE263AP(MN,F)	630	644	Transparent	ø1	50	200	a5-8	
		130°	8.5	20	TLRE11TP(F)	—	630	644	Transparent	ø3	50	200	a5-7	
		150°	8.5	15	TLRE261AP(F)	—	630	644	Transparent	ø1	50	200	a5-7	
	ø3	10°	478	1200	TLRE160A(F)	TLRE160A(RS,F)	630	644	Transparent	ø1	50	200	a3-3	Pilot lamps
			1630	3500	TLRME50C(F)	—	626	638	Red, transparent	ø3	50	200	a3-3	
			1630	3500	TLSE50T(F)	—	613	623	Transparent	ø3	50	200	a3-3	
			850	2200	TLRME50T(F)	—	626	638	Transparent	ø3	50	200	a3-3	
			850	1800	TLRE50T(F)	—	630	644	Transparent	ø3	50	200	a3-3	
		45°	272	800	TLSE53T(F)	—	613	623	Transparent	ø3	50	200	a3-4	
			272	600	TLRME53T(F)	—	626	638	Transparent	ø3	50	200	a3-4	
			153	400	TLRE53T(F)	—	630	644	Transparent	ø3	50	200	a3-4	
		80°	85	330	TLRME88TG(F)◆	—	626	638	Transparent	ø3	50	200	a3-5	Backlighting (wide range)
			85	260	TLRME88CG(F)◆	—	626	638	Red, transparent	ø3	50	200	a3-5	
			85	200	TLSE82T(F)	—	613	623	Transparent	ø3	50	200	a3-2	
			47.8	180	TLRME82T(F)	—	626	638	Transparent	ø3	50	200	a3-2	
			47.8	150	TLRE262A(F)	TLRE262A(MN,F)	630	644	Transparent	ø1	50	200	a3-2	
			47.8	120	TLRE82T(F)	—	630	644	Transparent	ø3	50	200	a3-2	
		100°	47.8	140	TLRME88DG(F)◆	—	626	638	Red, diffusing	ø3	50	200	a3-3	
		120°	15.3	45	TLRE80T(F)	—	630	644	Transparent	ø3	50	200	a3-1	
		140°	8.5	25	TLRE260A(F)	—	630	644	Transparent	ø1	50	200	a3-1	
	Elliptical 5 X 5.8	30° / 50°	272	750	TLSE27C(F)	—	613	623	Red, transparent	ø3	50	200	Elliptical-1	Message boards
			153	400	TLRME27C(F)	—	626	638	Red, transparent	ø3	50	200	Elliptical-1	
			85	300	TLRE27C(F)	—	630	644	Red, transparent	ø3	50	200	Elliptical-1	
		30° / 80°	85	350	TLRE248(F)	—	630	644	Red, transparent	ø1	50	200	Elliptical-1	

◆ Designed for flush mounting.

* When designing a circuit in which an LED is used, refer to the relevant technical datasheet.

Note 1: Refer to page 10 for information on pulse operation.

Note 2: Toshiba recommends products with two-digit package number. For details, please refer to page 3.