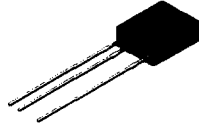

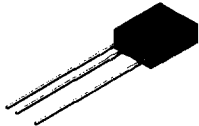
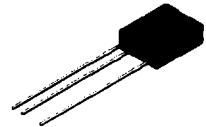


Package	Type	Characteristics				Features	
		$f_O$ (kHz)	$E_e$ min typ mW/m <sup>2</sup>	Transmission Distance typ. (m)	$V_S$ (V)		
<b>Modules for Short Bursts or High Duty Cycles</b>							
	TFMS1300	30	0.4	32	5	<ul style="list-style-type: none"> <li>• Photo detector and preamplifier in one package</li> <li>• Reliable function even in disturbed ambient</li> <li>• Suitable for extended data transmission rates (duty cycle <math>t_p/T = 50\%</math> possible)</li> <li>• Internal metal shielding, epoxy package with daylight filter</li> <li>• Suitable for short burst codes (minimum 6 pulses/burst)</li> <li>• Output signal compatible to microcomputers</li> <li>• High sensitivity</li> </ul>	
	TFMS1330	33	0.4				
	TFMS1360	36	0.4				
	TFMS1370	36.7	0.4				
	TFMS1380	38	0.4				
	TFMS1400	40	0.4				
	TFMS1560	56	0.45				
	TFMT1300	30	0.4	32	5		
	TFMT1330	33	0.4				
	TFMT1360	36	0.4				
	TFMT1370	36.7	0.4				
	TFMT1380	38	0.4				
	TFMT1400	40	0.4				
	TFMT1560	56	0.45				
	TSOP1130	30	0.35	35	5		
	TSOP1133	33	0.35				
	TSOP1136	36	0.35				
	TSOP1137	36.7	0.35				
	TSOP1138	38	0.35				
	TSOP1140	40	0.35				
	TSOP1156	56	0.4				
<b>Modules for Long Bursts</b>							
	TFMS2380	38	0.4	32	5	<ul style="list-style-type: none"> <li>• Photo detector and preamplifier in one package</li> <li>• Receiver module for transmission codes with long bursts (min 20 pulses/burst)</li> <li>• Enhanced integration time against neon light disturbances</li> <li>• Output active low</li> <li>• Internal protection against uncontrolled output pulses</li> <li>• Internal metal shielding, epoxy package with daylight filter</li> <li>• Reduced duty cycle for improved immunity against switch mode fluorescent lamps</li> <li>• Output signal compatible to microcomputers</li> <li>• Maximum duty cycle of 12%</li> </ul>	
	TFMS2400	40	0.4				
	TFMT2380	38	0.4				
	TFMT2400	40	0.4				
	TSOP1230	30	0.35	35			
	TSOP1233	33	0.4				
	TSOP1236	36	0.35				
	TSOP1237	36.7	0.35				
	TSOP1238	38	0.35				
	TSOP1240	40	0.35				
	TSOP1256	56	0.4				
<b>SMD Modules</b>							
	TFMM5300	30	0.6	30	5	<ul style="list-style-type: none"> <li>• Photo detector and preamplifier in one package</li> <li>• Reliable function even in disturbed ambient</li> <li>• High sensitivity and maximum interference safety against optical and electrical disturbances</li> <li>• Maximum duty cycle of 40% minimum burst length 400 <math>\mu</math>s</li> <li>• Internal protection against uncontrolled output pulses</li> <li>• Metal shielding and daylight filter</li> <li>• Output signal compatible to microcomputers</li> </ul>	
	TFMM5330	33	0.6				
	TFMM5360	36	0.6				
	TFMM5370	36.7	0.6				
	TFMM5380	38	0.6				
	TFMM5400	40	0.6				
	TFMM5560	56	0.8				