



TECHNICAL DATA SHEET

CSG-23FF, CSG-23FH

CSG-23FI, CSG-23FT

THE CSG-23FF, 23FH, 23FI, AND 23FT HIGH PERFORMANCE PHOTOINTERRUPTERS COMBINE A HIGH-OUTPUT GaAs LED WITH A HIGH SENSITIVITY PHOTOTRANSISTOR.

FEATURES

- 0.5MM APERTURE
- EASY TO MOUNT ON PCB
- WIDELY APPLICABLE

APPLICATIONS

- TAPE-END SENSORS
- TIMING SENSORS
- EDGE SENSOR
- COPIERS

MAXIMUM RATINGS

(TA=25°C)

ITEM		SYMBOL	RATING	UNIT
LED	POWER DISSIPATION	Pd	100	mW
	REVERSE VOLTAGE	VR	5	V
	FORWARD CURRENT	IF	60	mA
	PULSE FORWARD CURRENT ^{#1}	IFP	1	A
PHOTO-TRAN-SISTOR	COLLECTOR POWER DISSIPATION	Pc	100	mW
	COLLECTOR CURRENT	IC	50	mA
	C-E VOLTAGE	VCE0	30	V
	E-C VOLTAGE	VECO	5	V
OPERATING TEMPERATURE		TOPR	-20~+85	°C
STORAGE TEMPERATURE		TSTG	-30~+85	°C
SOLDERING TEMPERATURE ^{#2}		TSOL	240	°C

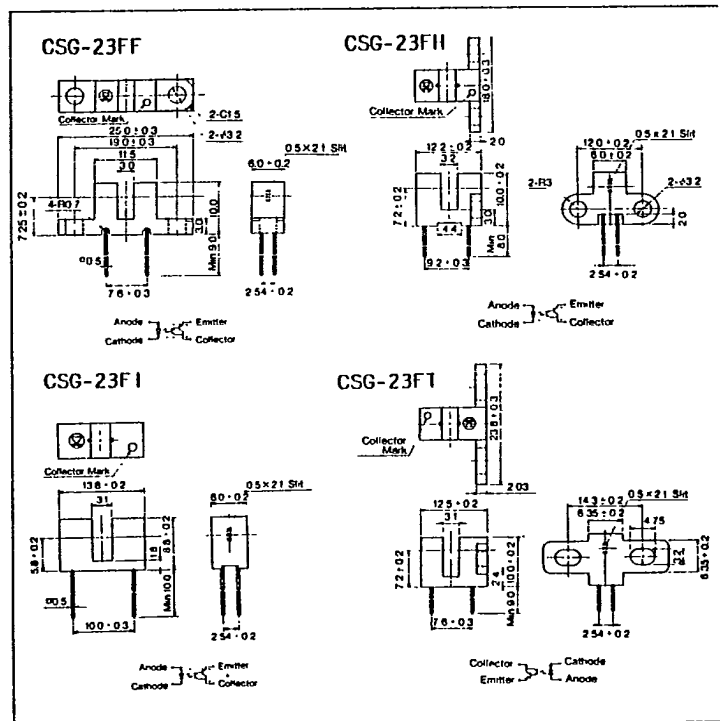
^{#1} 1W=100μSEC, T=10MSC.^{#2} 2MM, T=5SEC.

ELECTRO-OPTICAL CHARACTERISTICS

(TA=25°C)

ITEM		SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
INPUT	FORWARD VOLTAGE	VF	IF=30mA		1.2	1.5	V
	REVERSE CURRENT	IR	VR=5V			10	μA
	CAPACITANCE	CT	V=0V, F=1kHz		25		pF
	PEAK WAVELENGTH	λP			940		NM
OUTPUT	COLLECTOR DARK CURRENT	ICD0	VCE=10V			0.1	μA
	LIGHT CURRENT	IL	VCE=5V, IF=20mA	0.3			mA
	C-E SATURATION VOLTAGE	VCE(SAT)	IF=30mA, IC=0.1mA			0.4	V
SWITCHING SPEEDS	RISE TIME	TR	VCC=5V IC=2mA RL=100Ω		5		μSEC.
	FALL TIME	TF			5		μSEC.

DIMENSIONS (UNIT: MM)


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