Note:

■ Absolute Maximum Ratings (Ta = 25°C)

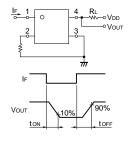
ltem		Symbol	Rating	Unit	Measurement Conditions	
Input	LED forward current	I _F	50	mA		
	Repetitive peak LED forward current	I _{FP}	1	Α	100 μs pulses, 100 pps	
	LED forward current reduction rate	Δ I _F /°C	-0.5	mA/°C	Ta ≥ 25°C	
	LED reverse voltage	V_R	5	V		
	Connection temperature	Tj	125	°C		
Output	Output dielectric strength	V _{OFF}	350	V		
	Continuous load current	I _O	150 (100)	mA		
	ON current reduction rate	Δ I _{ON} /°C	-1.5 (-1)	mA/°C	Ta ≥ 25°C	
	Connection temperature	Tj	125	°C		
Dielectric strength between input and output (See note 1.)		V _{I-O}	2,500	Vrms	AC for 1 min	
Operating temperature		Ta	-40 to +85	°C	With no icing or condensation	
Storage temperature		T _{stg}	-55 to +125	°C	With no icing or condensation	
Soldering temperature (10 s)			260	°C	10 s	

 The dielectric strength between the input and output was checked by applying voltage between all pins as a group on the LED side and all pins as a group on the light-receiving side.

■ Electrical Characteristics (Ta = 25°C)

Item		Symbol	Mini- mum	Typical	Maxi- mum	Unit	Measurement conditions
Input	LED forward voltage	V_{F}	1.0	1.15	1.3	V	I _F = 10 mA
	Reverse current	I _R			10	μА	V _R = 5 V
	Capacity between terminals	C _T		30		pF	V = 0, f = 1 MHz
	Trigger LED forward current	I _{FT}		1	3	mA	I _{OFF} = 10 μA
Output	Maximum resistance with output ON	R _{ON}		15 (30)	25 (50)	Ω	I _O = 150 mA
	Current leakage when the relay is open	I _{LEAK}			1.0	μΑ	$I_F = 5 \text{ mA}, V_{OFF} = 350 \text{ V}$
Capacity between I/O terminals		C _{I-O}		0.8		pF	f = 1 MHz, Vs = 0 V
Insulation resistance		R _{I-O}	1,000			MΩ	V _{I-O} = 500 VDC, RoH ≤ 60%
Turn-ON time		tON		0.1 (0.25)	1.0 (0.5)	ms	I_F = 5 mA, R_L = 200 Ω, V_{DD} = 20 V (See note 2.)
Turn-OFF time		tOFF		1.0 (0.5)	3.0 (1)	ms	

Note: 2. Turn-ON and Turn-OFF Times



Values in parentheses are for the G3VM-354C1/F1.

■Recommended Operating Conditions

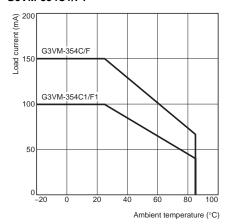
Use the G3VM under the following conditions so that the Relay will operate properly.

Item	Symbol	Minimum	Typical	Maximum	Unit
Output dielectric strength	V_{DD}			280	V
Operating LED forward current	IF	5		25	mA
Continuous load current	I _O			150 (100)	mA
Operating temperature	Ta	- 20		65	°C

Values in parentheses are for the G3VM-354C1/F1.

■ Engineering Data

Load Current vs. Ambient Temperature G3VM-354C(F) G3VM-354C1/F1



■ Safety Precautions

Refer to "Common Precautions" for all G3VM models.

Values in parentheses are for the G3VM-354C1/F1.