Note:

■ Absolute Maximum Ratings (Ta = 25°C)

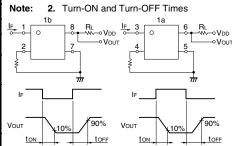
Item		Symbol	Rating	Unit	Measurement Conditions	
Input LED forward current		I _F	50	mA		
	Repetitive peak LED forward current	I _{FP}	1	Α	100 μs pulses, 100 pps	
	LED forward current reduction rate	Δ I _F /°C	-0.5	mA/°C	Ta ≥ 25°C	
	LED reverse voltage	V _R	5	V		
	Connection temperature	T _j	125	°C		
Output	Output dielectric strength	V _{OFF}	350	٧		
	Continuous load current	I _O	120 (90)	mA		
	ON current reduction rate	Δ I _{ON} /°C	-1.2 (-0.9)	mA/°C	Ta ≥ 25°C	
	Connection temperature	Tj	125	°C		
Dielectric strength between input and output (See note 1.)		V _{I-O}	1,500	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.

Values in parentheses are for the G3VM-355J.

■ Electrical Characteristics (Ta = 25°C)

ltem		Symbol	Mini- mum	Typical	Maxi- mum	Unit	Measurement conditions		
In- put	LED forward voltage		V_{F}	1.0	1.15	1.3	V	I _F = 10 mA	
	Reverse current		I _R			10	μΑ	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	SPST-NO: I _O = 90 mA	
			I _{FC}	С				SPST-NC: I _{OFF} = 10 μA	
Out- put	Maximum resistance with output ON		R _{ON}		15 (40)	25 (50)	Ω	SPST-NO: $I_F = 5 \text{ mA}$, $I_O = 90 \text{ mA}$	
								SPST-NC: $I_F = 0 \text{ mA}$, $I_O = 90 \text{ mA}$	
	Current leakage when the relay is open		I _{LEAK}			1.0	μА	V _{OFF} = 350 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			ΜΩ	$V_{I-O} = 500 \text{ VDC},$ RoH $\leq 60\%$	
		SPST-NO	tON		(0.3)	1.0	ms	I_F = 5 mA, R_L = 200 Ω ,	
		SPST-NC			(0.25)	1.0	ms	V _{DD} = 20 V (See note 2.)	
Turn-OFF time		SPST-NO	tOFF		(0.15)	1.0	ms		
		SPST-NC			(0.5)	3.0 (1)	ms		



Values in parentheses are for the G3VM-355J.

■ Recommended Operating Conditions

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

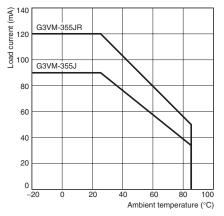
Item	Symbol	Minimum	Typical	Maximum	Unit
Output dielectric strength	V_{DD}			280	V
Operating LED forward current	I _F	5		25	mA
Continuous load current	Io			120 (90)	mA
Operating temperature	Ta	-20		65	°C

Values in parentheses are for the G3VM-355J.

■ Engineering Data

Load Current vs. Ambient Temperature

G3VM-355J/JR



■ Safety Precautions

Refer to "Common Precautions" for all G3VM models.