

For AC/DC Load General-purpose SOP Type Optical MOS Relay

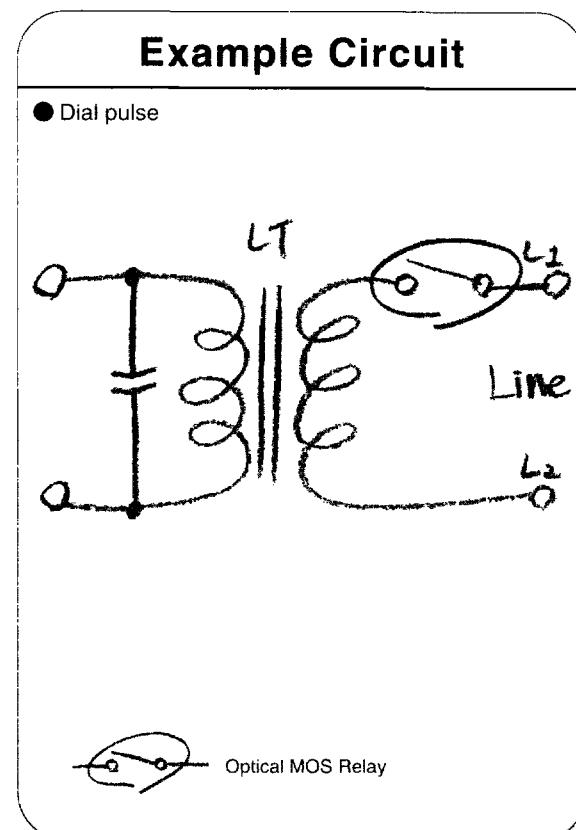
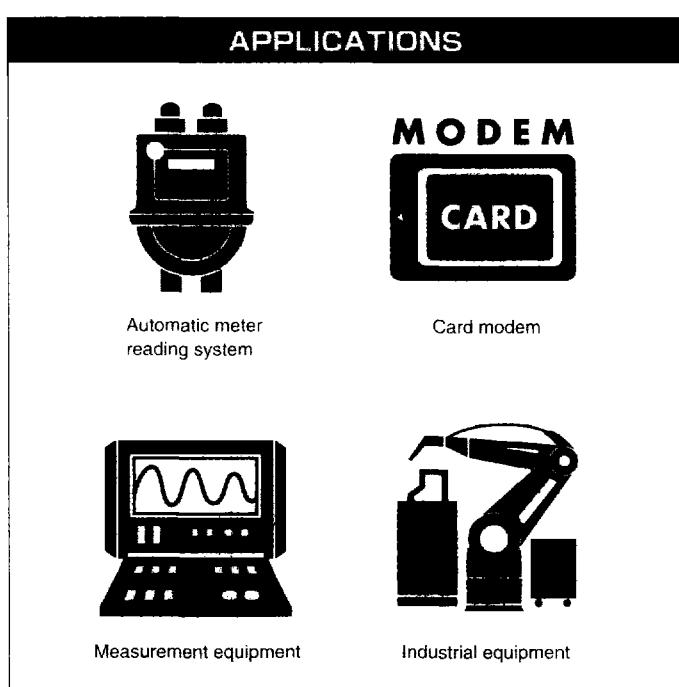
OCMS2□6, 2□7 series

- SOP type ▶ Mounting area 1/2, Mounting height \leq 1/2 (compared with 6pin DIP)
- ON resistance ▶ 2~33 Ω
- Load current ▶ 320~100 mA
- Recommended input current ▶ 10 mA

■ Absolute maximum ratings

(Ambient temperature $T_a=25^\circ\text{C}$)

Product name			OCMS206	OCMS216	OCMS226	OCMS236	OCMS246
Item	Symbol	Condition	Unit				
Input characteristics	I _F		mA			50	
	ΔI_F		mA/ $^\circ\text{C}$	Refer to [Derating Factor of Continuous Forward current] of characteristics data			
	I _{FM}	Pulse width 100 μs Cycle 10ms	A			0.5	
Output characteristics	V _R		V			5	
	P _{DL}		mW			75	
	V _{OFF}		V	60	100	200	350
	I _{ON}		mA	320	280	180	120
	ΔI_{ON}		mA/ $^\circ\text{C}$	Refer to [Derating Factor of Load Current] of characteristics data			
	I _{SUG}	Pulse width 1ms 1shot	A		1.0		0.8
	P _D		mW			300	
	P _{tot}		mW			325	
	V _{IO}		V(rms)			1500	
	T _{opr}		$^\circ\text{C}$			-40~+85	
	T _{stg}		$^\circ\text{C}$			-40~+100	



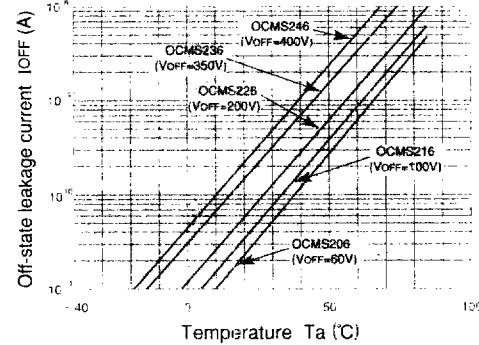
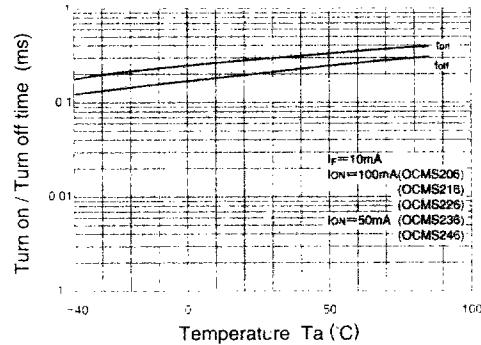
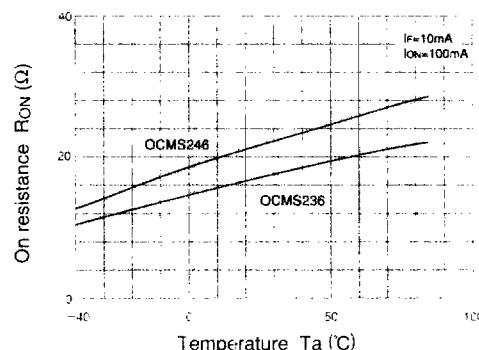
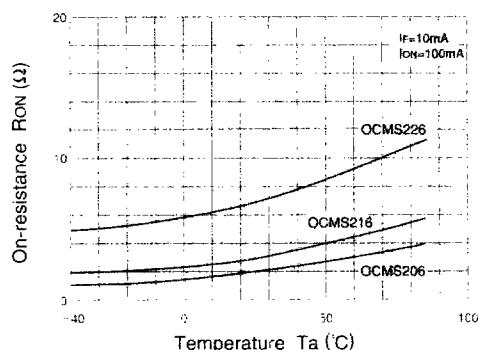
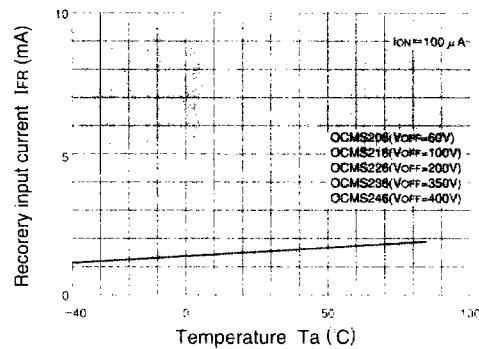
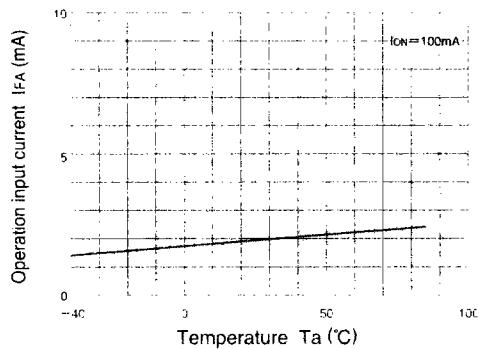
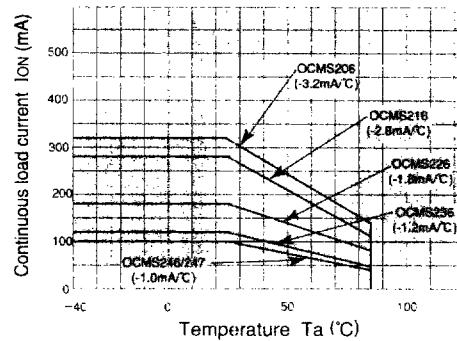
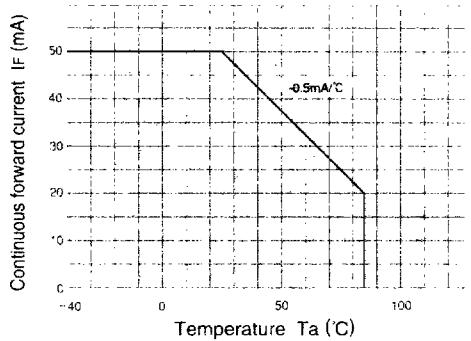
■ Electrical characteristics

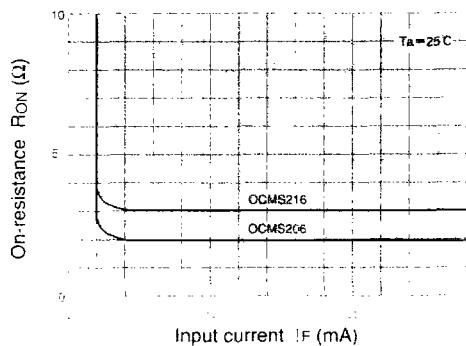
(Ambient temperature $T_a=25^\circ\text{C}$)

		Product name		Unit	OCMS206	OCMS216	OCMS226	OCMS236	OCMS246
Item	Symbol	Condition							
Input characteristics	Forward voltage ¹ VF	$I_F=10\text{mA}$	MIN MAX	V					1.0 1.3
	Reverse voltage IR	$V_R=5\text{V}$	MAX	μA					10
	Operation input current ¹ IFA	$I_{ON}=100\text{mA}$	MAX	mA					5
	Recovery input current ¹ IFR	$V_{OFF}=\text{Rating}$ $I_{ON}=100\text{\AA}$	MIN	mA					0.2
Output characteristics	On-resistance Ron	$I_F=10\text{mA}$ $I_{ON}=100\text{mA}$ Time to flow current is within one second	MIN TYP MAX	Ω	1.0 2.0 3.0	2.0 3.0 4.0	4.0 7.0 10	7.0 17 24	10 22 33
	Off-state leakage current ² IOFF	$V_{OFF}=\text{Rating}$	MAX	μA					1.0
	Output terminal capacitance Cout	$V_{OFF}=50\text{V}$ $f=1\text{MHz}$	TYP	pF	35	25	15	12	10
Coupling characteristics	Input-to-output capacitance Cio	$f=1\text{MHz}$	TYP	pF					1.3
	Turn on time ³ ton	$I_F=10\text{mA}$ $I_{ON}=100\text{mA}$ OCMS206 OCMS216 OCMS226	TYP MAX	ms					0.3
	Turn off time ³ toff	$I_{off}=50\text{mA}$ OCMS236 OCMS246	TYP MAX	ms					1.0 0.2 1.0

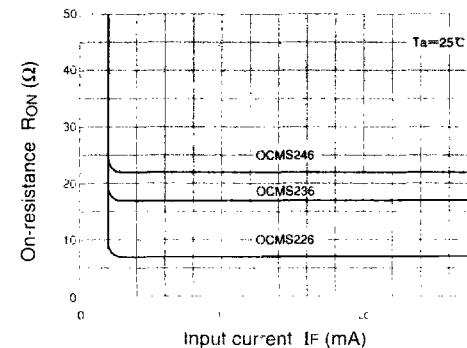
¹ : Can correspond to special specification $I_{ON}<3.0\text{mA}$ ² : Can correspond to special specification $I_{OFF}<1.0\text{\AA}$ ³ : Can correspond to special specification $t_{on}/t_{off}<0.5\text{ms}$

■ OCMS2 □ 6, 2 □ 7 series Characteristics Curves

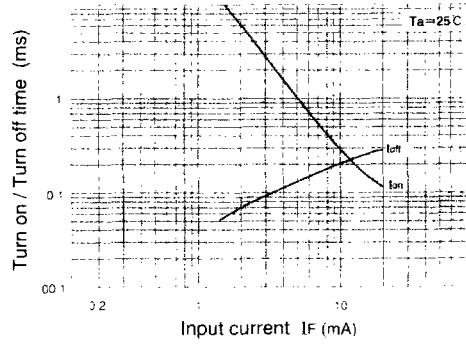




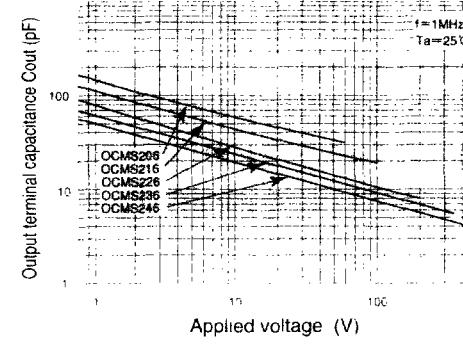
**Continuous forward current
vs. On-resistance-1**



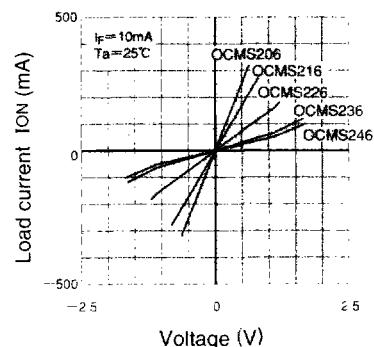
**Continuous forward current
vs. On-resistance-2**



**Continuous forward current
vs. Turn on/Turn off time**



**Output terminal capacitance
vs. Applied voltage**



Load current vs. Voltage