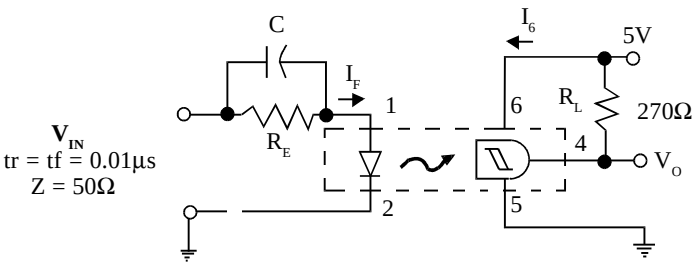
ELECTRICAL CHARACTERISTICS (T_A= 25°C Unless otherwise noted)

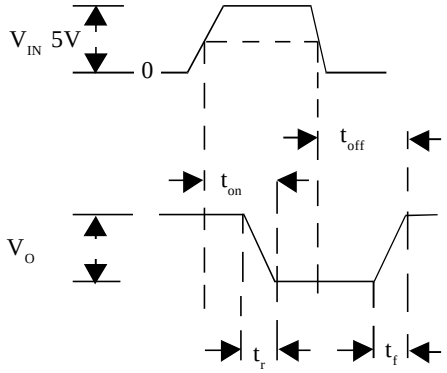
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)	0.75			V	I_F = 0.3mA
	Forward Voltage (V_F)			1.5	V	I_F = 10mA
	Reverse Current (I_R)			10	µA	V_R = 3V
	Capacitance (C_J)			100	pF	V = 0, f = 1MHz
Output	Operating Voltage Range (V_{CC})	3		15	V	
	Supply Current I_6 (off)		1	5	mA	I_F = 0mA, V_{CC} = 5V
	Output Current High (I_{OH})			100	µA	I_F= 0mA,V_{CC}= V_O=15V
Coupled	Supply Current I_6 (on)		1.6	5	mA	I_F = 10mA, V_{CC} = 5V
	Output Voltage, Low (V_{OL})			0.4	V	R_L= 270Ω, V_{CC} = 5V
	Turn-on Threshold Current I_F (on)					
	MOC5007			1.6	mA	R_L= 270Ω, V_{CC} = 5V
	MOC5008			4	mA	R_L= 270Ω, V_{CC} = 5V
	MOC5009			10	mA	R_L= 270Ω, V_{CC} = 5V
	Turn-off Threshold Current I_F (off)	0.3			mA	R_L= 270Ω, V_{CC} = 5V
	Hysteresis Ratio I_F (off) / I_F (on)	0.5		0.9		R_L= 270Ω, V_{CC} = 5V
	Input to Output Isolation Voltage V_{IS0}	5300			V_{RMS}	See note 1
		7500			V_{PK}	See note 1
	Turn-on Time t_{on}		1.2	4	µs	R_E = 270Ω
	Fall Time t_f		0.1		µs	V_{CC} = 5V
	Turn-off Time t_{off}		1.2	4	µs	I_F = I_F (on)
	Rise Time t_r		0.1		µs	

Note 1 Measured with input leads shorted together and output leads shorted together.
Note 2 Special Selections are available on request. Please consult the factory.

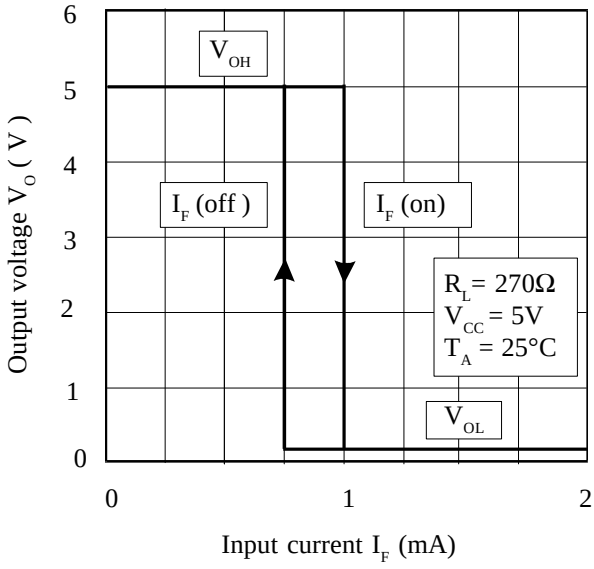
SWITCHING CHARACTERISTICS



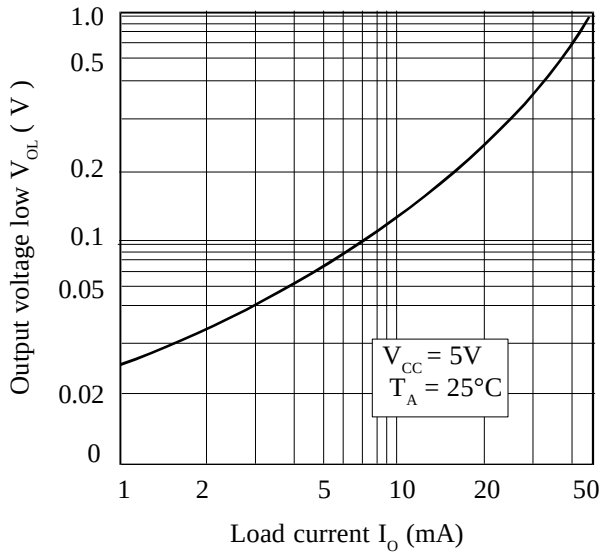
SWITCHING TEST CIRCUIT



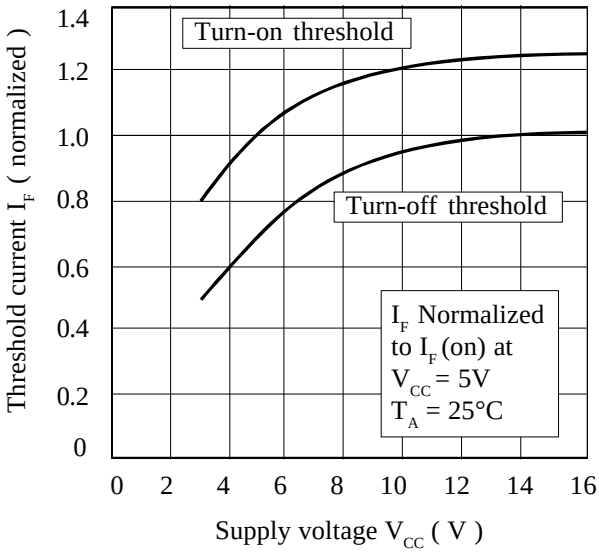
Transfer Characteristics



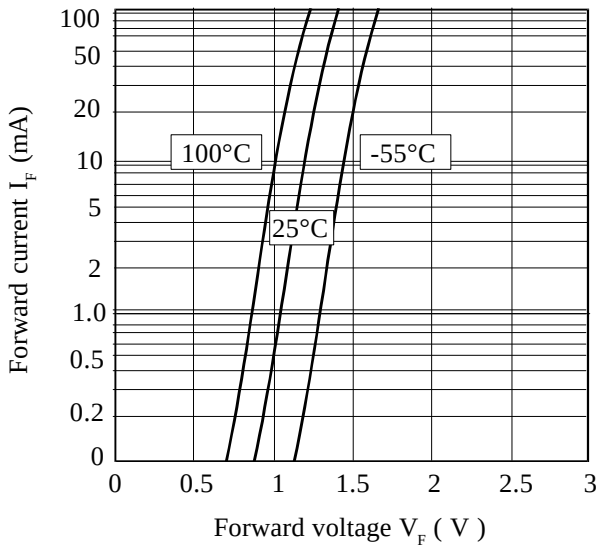
On Voltage vs. Load Current



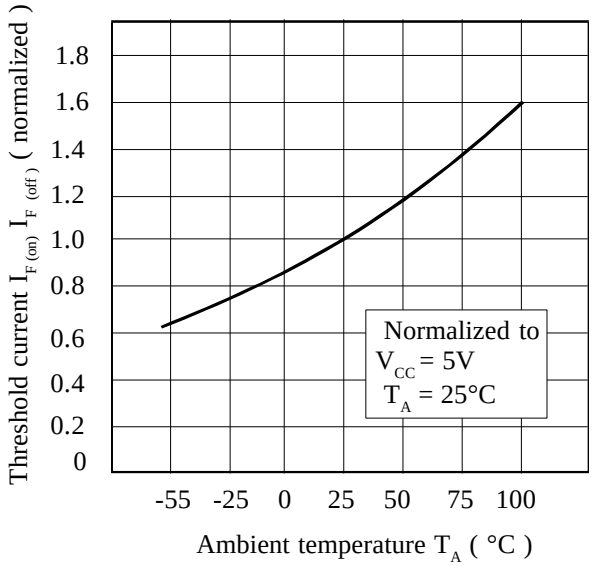
Threshold Current vs. Supply Voltage



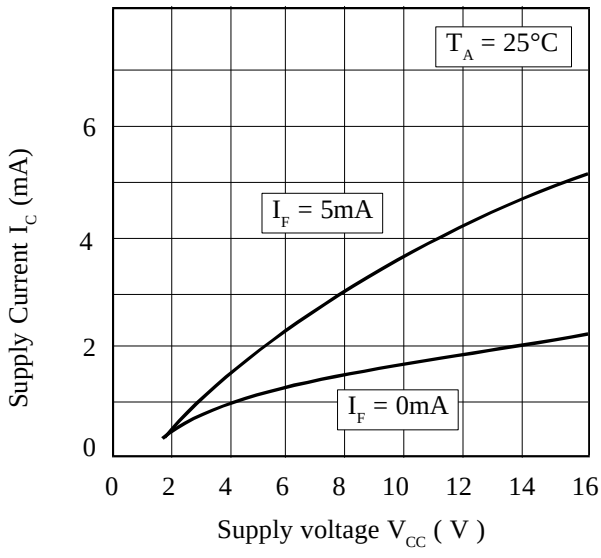
Forward Voltage vs. Forward Current



Threshold Current vs. Ambient Temperature



Supply Current vs. Supply Voltage



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