

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.4	V	$I_F = 20\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 6\text{V}$
Output	Peak Off-state Current (I_{DRM})	400		500	nA	$V_{\text{TM}} = 400\text{V}$ (note 1)
	Peak Blocking Voltage (V_{DRM})				V	$I_{\text{DRM}} = 500\text{nA}$
	On-state Voltage (V_{TM})			3.0	V	$I_{\text{TM}} = 100\text{mA}$ (peak)
	Critical rate of rise of off-state Voltage (dv/dt)	600	1500		V/ μs	
Coupled	Input Current to Trigger (I_{FT}) (note 2)					$V_{\text{TM}} = 3\text{V}$ (note 2)
	MOC3040			30	mA	
	MOC3041			15	mA	
	MOC3042			10	mA	
	MOC3043			5	mA	
	Holding Current , either direction (I_H)	5300	400		μA	See note 3
	Input to Output Isolation Voltage V_{ISO}				V_{RMS}	
				7500	V_{PK}	
Zero Crossing Characteristic	Inhibit Voltage (V_{IH})			20	V	$I_F = \text{Rated } I_{\text{FT}}$ MT1-MT2 Voltage above which device will not trigger
	Leakage in Inhibited State (I_S)			500	μA	$I_F = \text{Rated } I_{\text{FT}}$ $V_{\text{DRM}} = \text{Rated } V_{\text{DRM}}$ Off-state

Note 1. Test voltage must be applied within dv/dt rating.

Note 2. Guaranteed to trigger at an I_F value less than or equal to max. I_{FT} , recommended I_F lies between Rated I_{FT} and absolute max. I_F .

Note 3. Measured with input leads shorted together and output leads shorted together.