

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

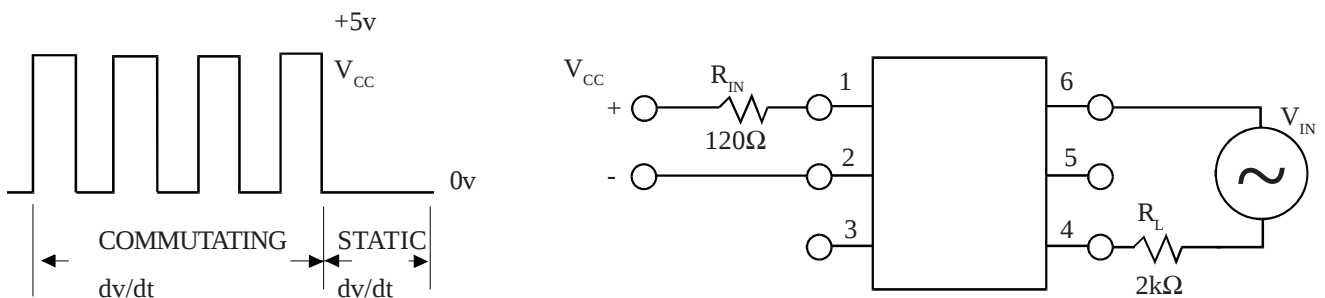
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.5	V	$I_F = 10\text{mA}$
	Reverse Current (I_R)			100	μA	$V_R = 6\text{V}$
Output	Peak Off-state Current (I_{DRM})	400		100	nA	$V_{\text{DRM}} = 400\text{V}$ (note 1)
	Peak Blocking Voltage (V_{DRM})				V	$I_{\text{DRM}} = 100\text{nA}$
	On-state Voltage (V_{TM})		1.5	3.0	V	$I_{\text{TM}} = 100\text{mA}$ (peak)
	Critical rate of rise of off-state Voltage (dv/dt) (note 1)		10		$\text{V}/\mu\text{s}$	
	Critical rate of rise of commutating Voltage (dv/dt) (note 1)	0.1	0.2		$\text{V}/\mu\text{s}$	$I_{\text{load}} = 15\text{mA}$, $V_{\text{IN}} = 30\text{V}$ (fig 1.)
Coupled	Input Current to Trigger (I_{FT})(note 2)					$V_D = 3\text{V}$ (note 2)
	MOC3020			30	mA	
	MOC3021			15	mA	
	MOC3022			10	mA	
	MOC3023			5	mA	
	Holding Current , either direction (I_H)	100			μA	
	Input to Output Isolation Voltage V_{ISO}	5300 7500			V_{RMS} V_{PK}	See note 3 See note 3

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

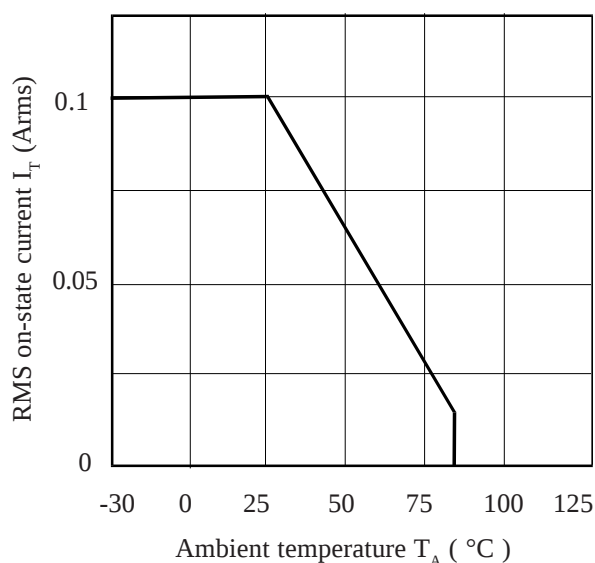
Note 2. Guaranteed to trigger at an I_F value less than or equal to max. I_{FT} , recommended I_F lies between Rated I_{FT} and absolute max. I_{FT} .

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

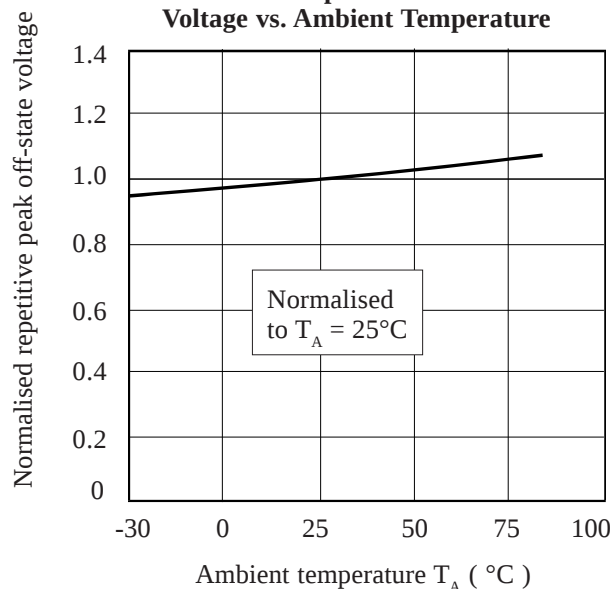
FIGURE 1



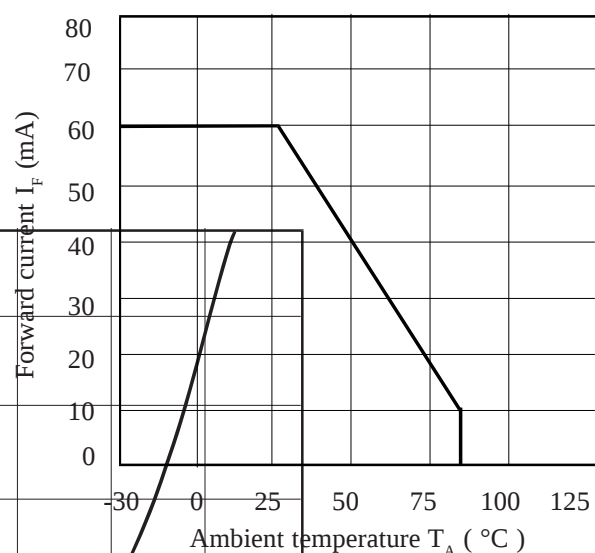
RMS On-state Current vs. Ambient Temperature



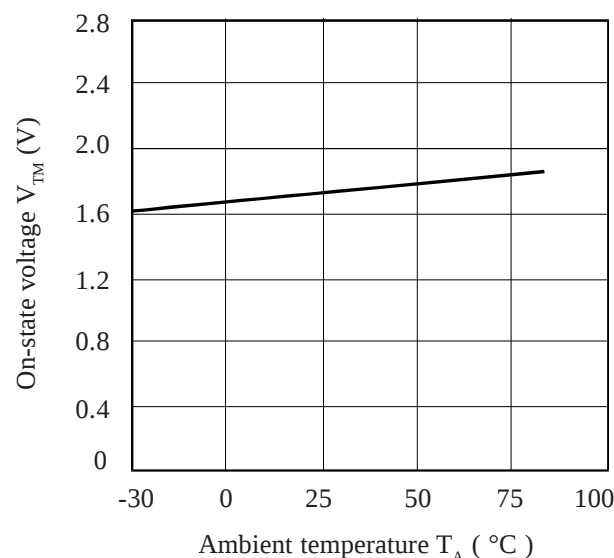
Normalised Repetitive Peak Off-state Voltage vs. Ambient Temperature



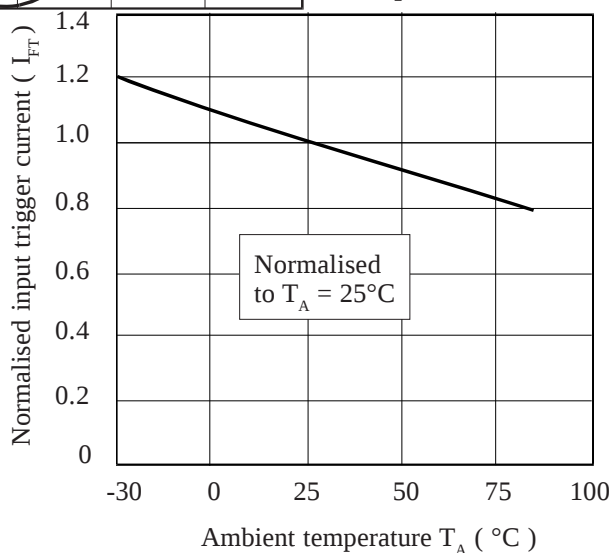
Forward Current vs. Ambient Temperature



On-state Voltage vs. Ambient Temperature



Normalised Input Trigger Current vs. Ambient Temperature



On-state Current vs. On-state Voltage

