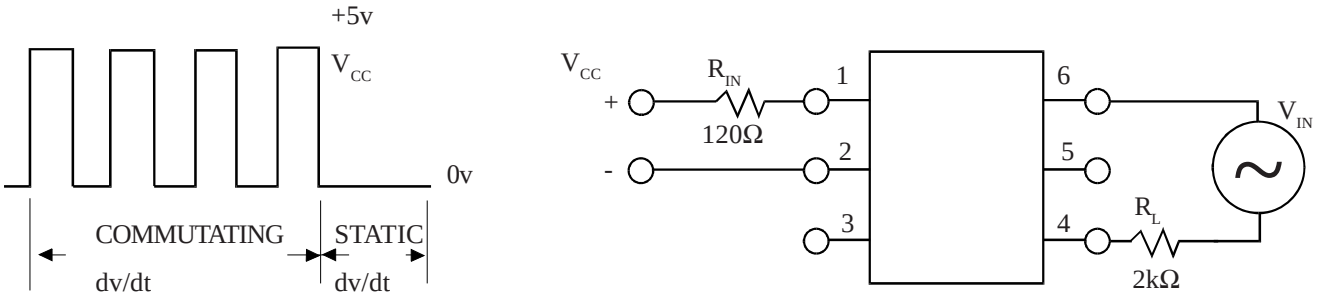
ELECTRICAL CHARACTERISTICS (T_A = 25°C Unless otherwise noted)

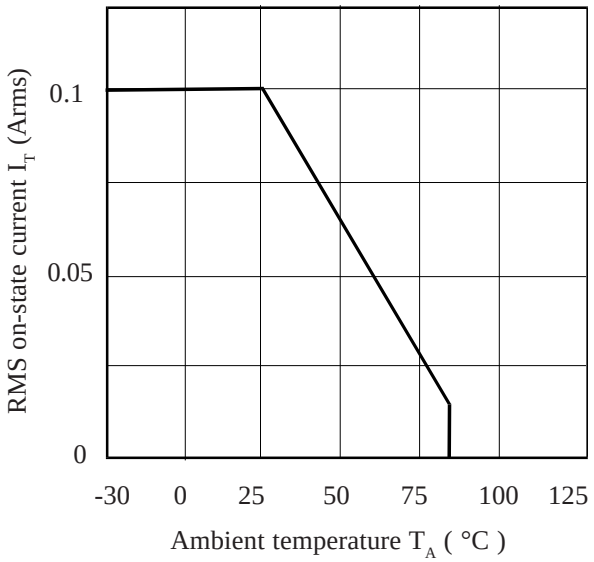
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.5	V	I_F = 10mA
	Reverse Current (I_R)			100	µA	V_R =6V
Output	Peak Off-state Current (I_{DRM})			100	nA	V_{DRM} = 250V (note 1)
	Peak Blocking Voltage (V_{DRM})	250			V	I_{DRM} = 100nA
	On-state Voltage (V_{TM})		1.5	3.0	V	I_{TM} = 100mA (peak)
	Critical rate of rise of off-state Voltage (dv/dt) (note 1)		10		V/µs	
	Critical rate of rise of commutating Voltage (dv/dt) (note 1)	0.1	0.2		V/µs	I load = 15mA, V_{IN} = 30V (fig 1.)
Coupled	Input Current to Trigger (I_{FT})(note 2)					
	MOC3009			30	mA	V_D = 3V (note 2)
	MOC3010			15	mA	
	MOC3011			10	mA	
	MOC3012			5	mA	
	Holding Current , either direction (I_H)		100		µA	
	Input to Output Isolation Voltage V_{ISO}	5300			V_{RMS}	See note 3
		7500			V_{PK}	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.

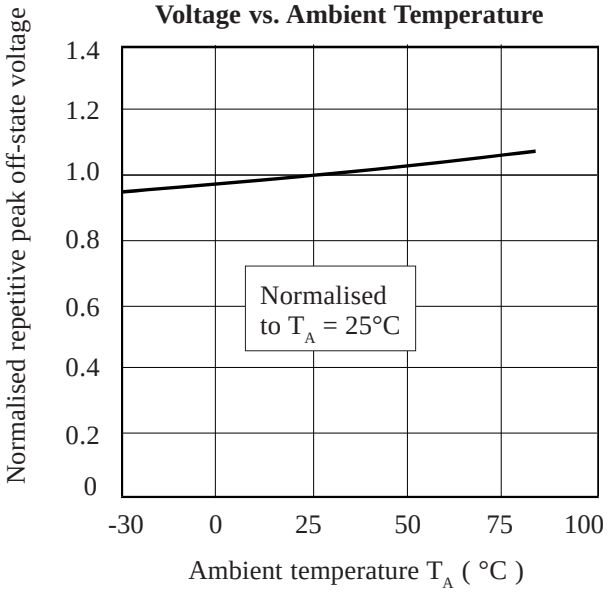
FIGURE 1



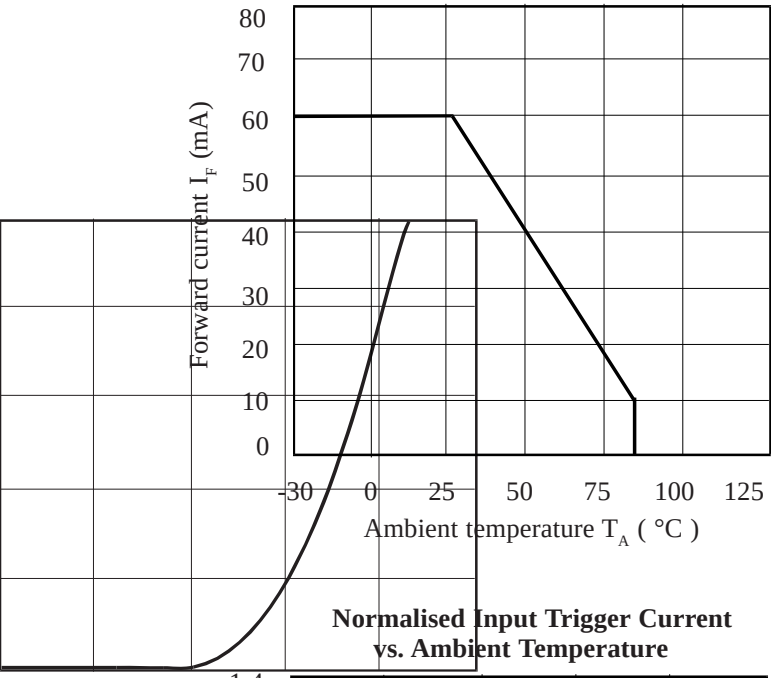
RMS On-state Current vs. Ambient Temperature



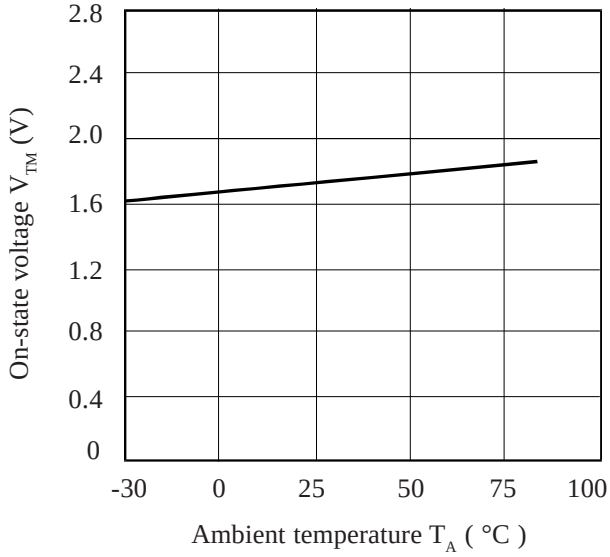
Normalised Repetitive Peak Off-state Voltage vs. Ambient Temperature



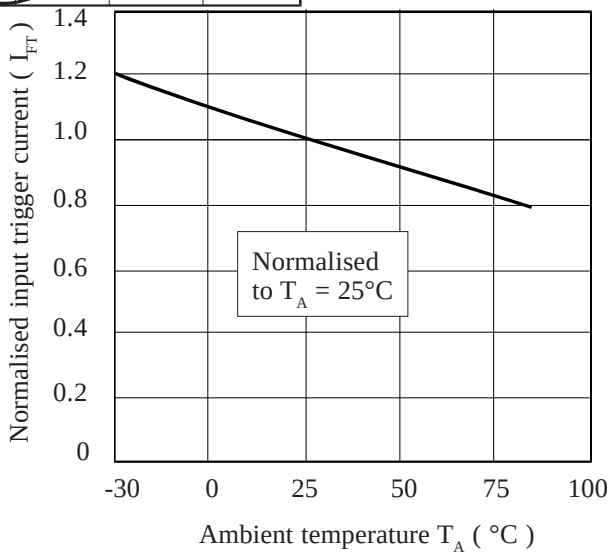
Forward Current vs. Ambient Temperature



On-state Voltage vs. Ambient Temperature



Normalised Input Trigger Current vs. Ambient Temperature



On-state Current vs. On-state Voltage