

ABSOLUTE MAXIMUM RATINGS
(25 °C unless otherwise noted)

Storage Temperature	_____	-55°C - +150°C
Operating Temperature	_____	-40°C - +100°C
Lead Soldering Temperature	_____	260°C
(1.6mm from case for 10 seconds)		

INPUT DIODE

Forward Current	_____	50mA
Reverse Voltage	_____	6V
Power Dissipation	_____	70mW
(derate linearly 1.33mW/°C above 25°C)		

OUTPUT PHOTOTRIAC

Off-State Output Terminal Voltage	_____	600V
Forward Current (Peak)	_____	1A
Power Dissipation	_____	300mW
(derate linearly 4.0mW/°C above 25°C)		

POWER DISSIPATION

Total Power Dissipation	_____	330mW
(derate linearly 4.4mW/°C above 25°C)		

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

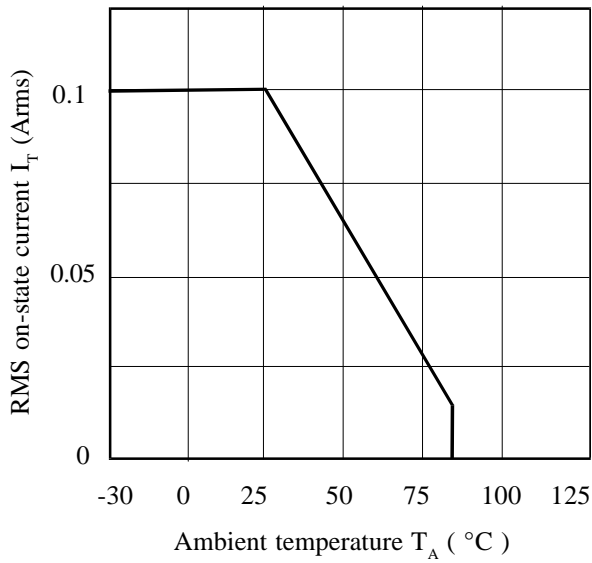
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F) Reverse Current (I _R)		1.2	1.5 10	V µA	I _F = 10mA V _R = 6V
Output	Peak Off-state Current (I _{DRM}) Peak Blocking Voltage (V _{DRM}) On-state Voltage (V _{TM}) Critical rate of rise of off-state Voltage @ 400V (dv/dt) (note 1)	600		100 3.0	nA V V	V _{DRM} = 600V (note 1) I _{DRM} = 100nA I _{TM} = 100mA (peak)
Coupled	Input Current to Trigger (I _{FT}) (note 2) MOC3051 MOC3052 Holding Current , either direction (I _H) Input to Output Isolation Voltage V _{ISO}			15 10	mA mA	V _D = 3V (note 2)
			100		µA	
		5300 7500			V _{RMS} V _{PK}	See note 3 See note 3

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

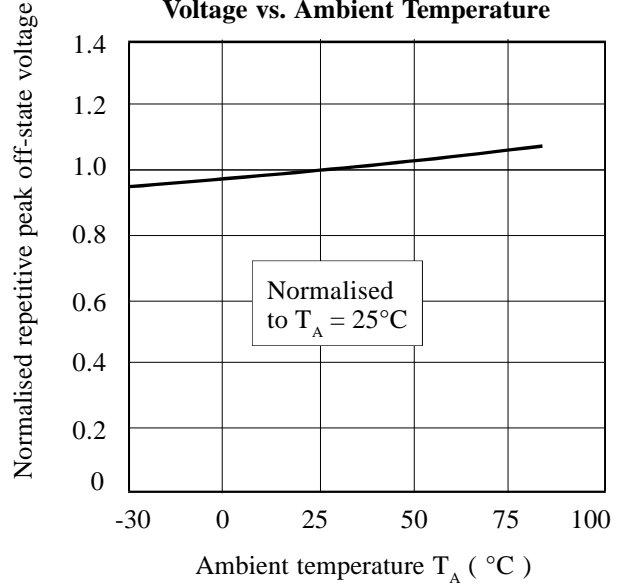
Note 2. Guaranteed to trigger at an I_F value less than or equal to max. I_{FT}, recommended I_F lies between Rated I_{FT} and absolute max. I_{FT}.

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

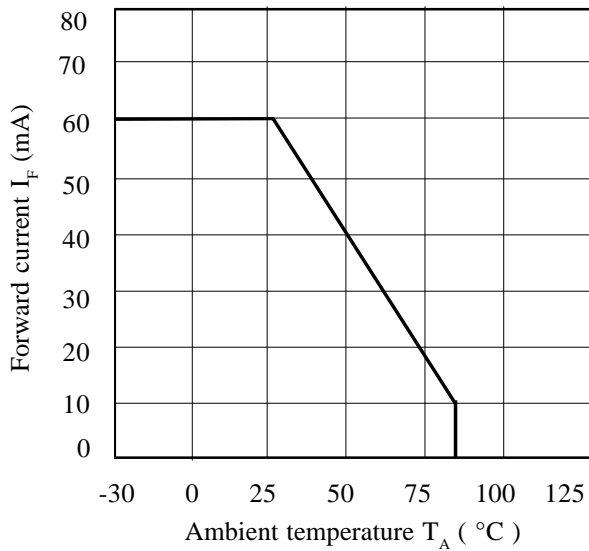
RMS On-state Current vs. Ambient Temperature



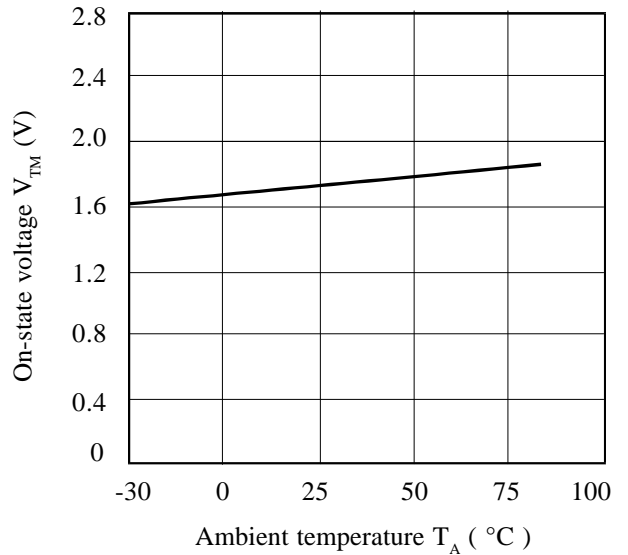
Normalised Repetitive Peak Off-state Voltage vs. Ambient Temperature



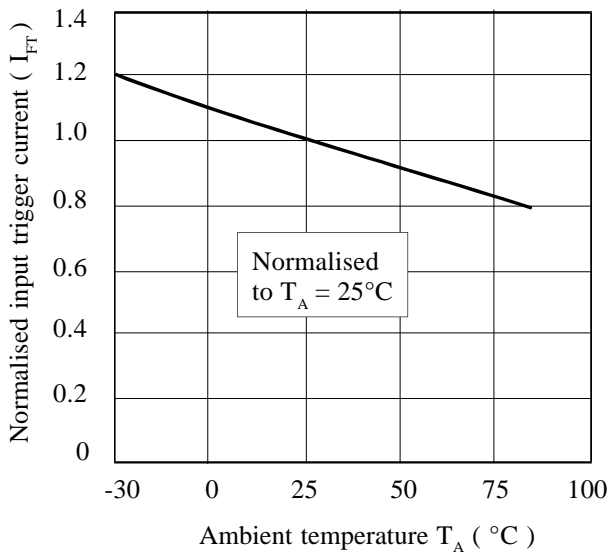
Forward Current vs. Ambient Temperature



On-state Voltage vs. Ambient Temperature



Normalised Input Trigger Current vs. Ambient Temperature



On-state Current vs. On-state Voltage

