

electrical characteristics at 25°C case temperature (unless otherwise noted) (continued)

PARAMETER	TEST CONDITIONS			MIN	TYP	MAX	UNIT
I_H Holding current	$V_{supply} = +12\text{ V} \dagger$ $V_{supply} = -12\text{ V} \dagger$	$I_G = 0$ $I_G = 0$	Init' $I_{TM} = 100\text{ mA}$ Init' $I_{TM} = -100\text{ mA}$		10 -6	30 -30	mA
I_L Latching current	$V_{supply} = +12\text{ V} \dagger$ $V_{supply} = -12\text{ V} \dagger$	(see Note 6)				50 -50	mA
dv/dt Critical rate of rise of off-state voltage	$V_{DRM} = \text{Rated } V_{DRM}$	$I_G = 0$	$T_C = 110^\circ\text{C}$		± 100		V/ μs
$dv/dt_{(c)}$ Critical rise of commutation voltage	$V_{DRM} = \text{Rated } V_{DRM}$	$I_{TRM} = \pm 12\text{ A}$	$T_C = 85^\circ\text{C}$ (see figure 7)	± 5			V/ μs

† All voltages are with respect to Main Terminal 1.

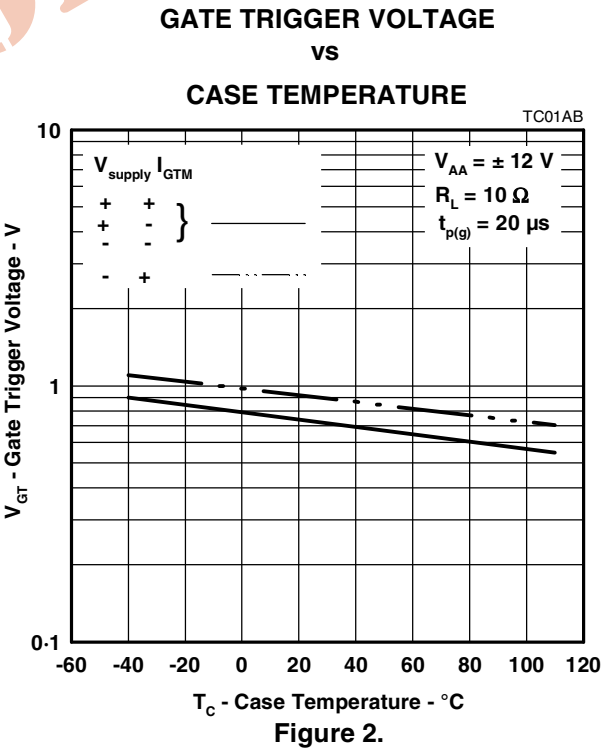
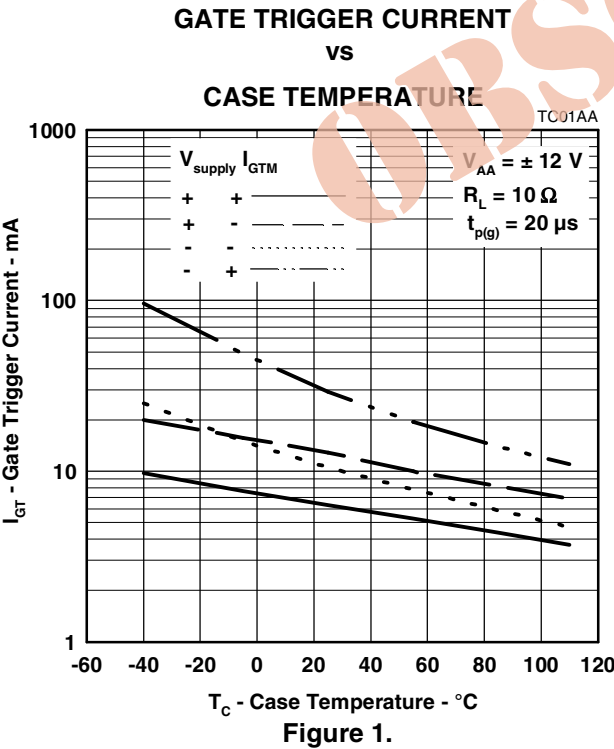
NOTES: 5. This parameter must be measured using pulse techniques, $t_p \leq 1\text{ ms}$, duty cycle $\leq 2\%$. Voltage-sensing contacts separate from the current carrying contacts are located within 3.2 mm from the device body.

6. The triacs are triggered by a 15-V (open-circuit amplitude) pulse supplied by a generator with the following characteristics:
 $R_G = 100\ \Omega$, $t_{p(g)} = 20\ \mu\text{s}$, $t_r \leq 15\text{ ns}$, $f = 1\text{ kHz}$.

thermal characteristics

PARAMETER	MIN	TYP	MAX	UNIT
$R_{\theta JC}$ Junction to case thermal resistance			1.8	$^\circ\text{C/W}$
$R_{\theta JA}$ Junction to free air thermal resistance			62.5	$^\circ\text{C/W}$

TYPICAL CHARACTERISTICS



PRODUCT INFORMATION

TYPICAL CHARACTERISTICS

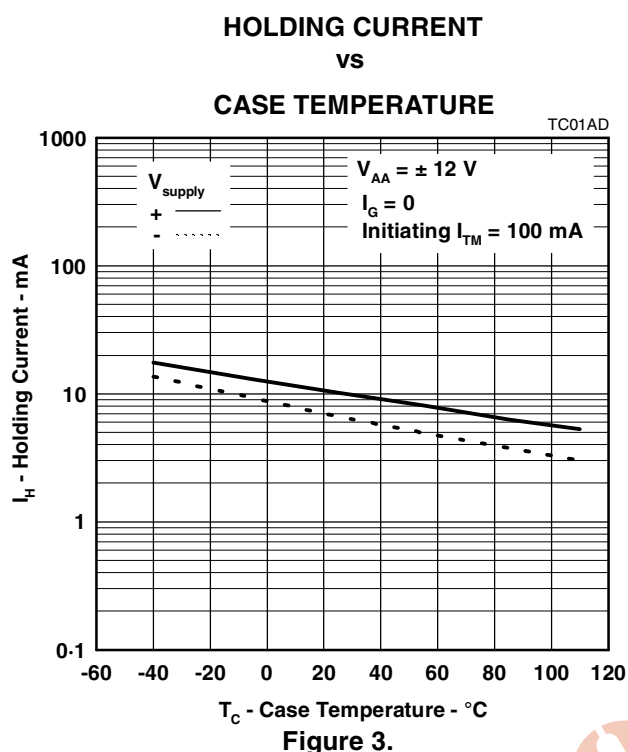


Figure 3.

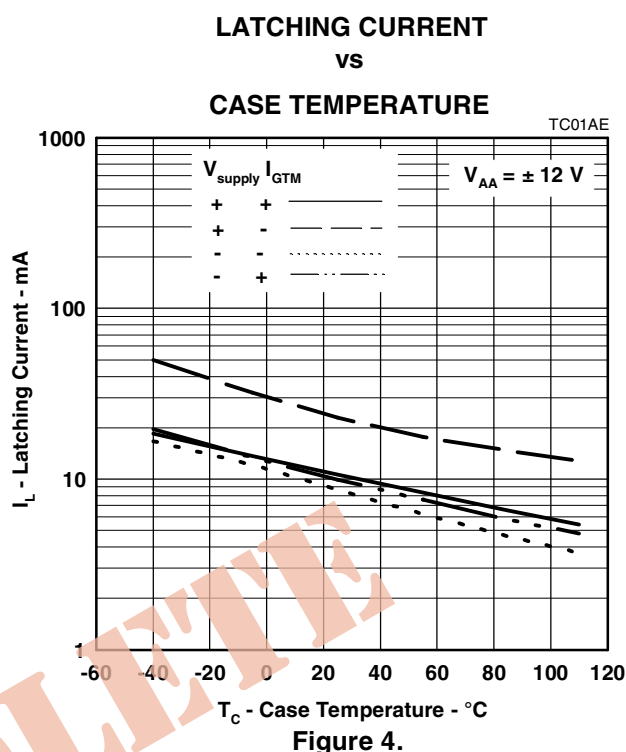


Figure 4.

THERMAL INFORMATION

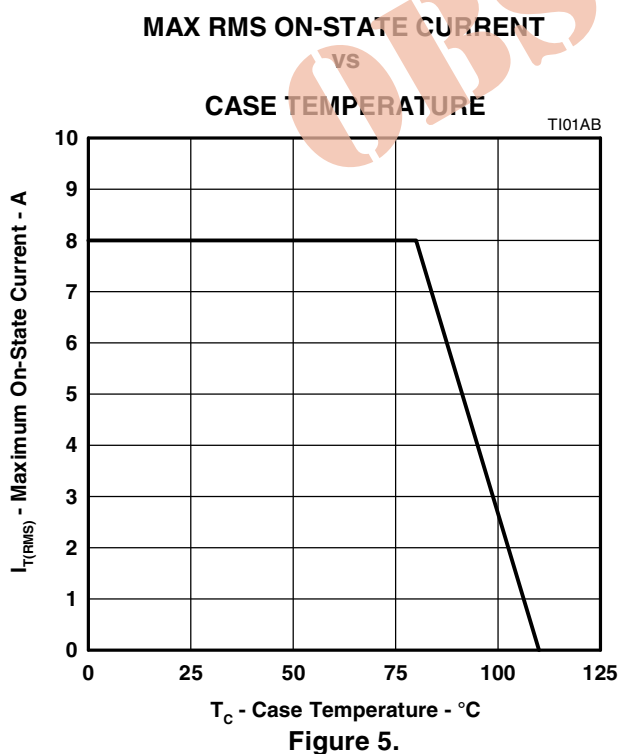


Figure 5.

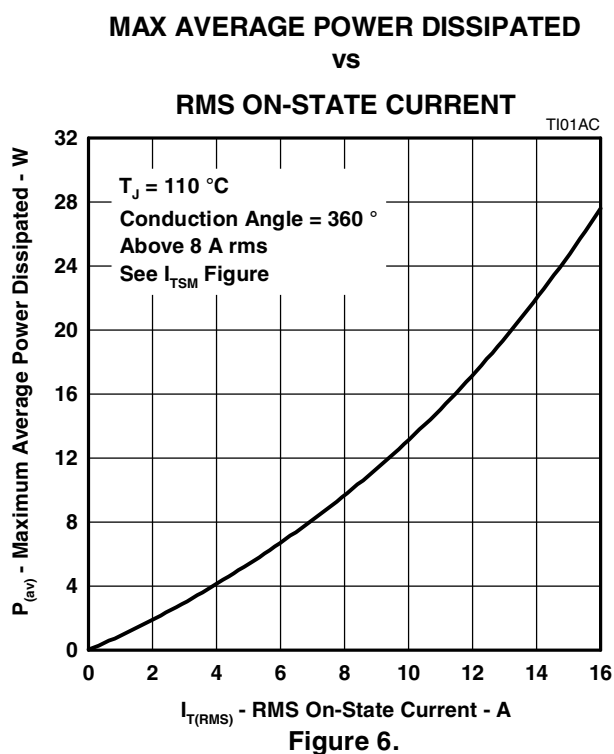
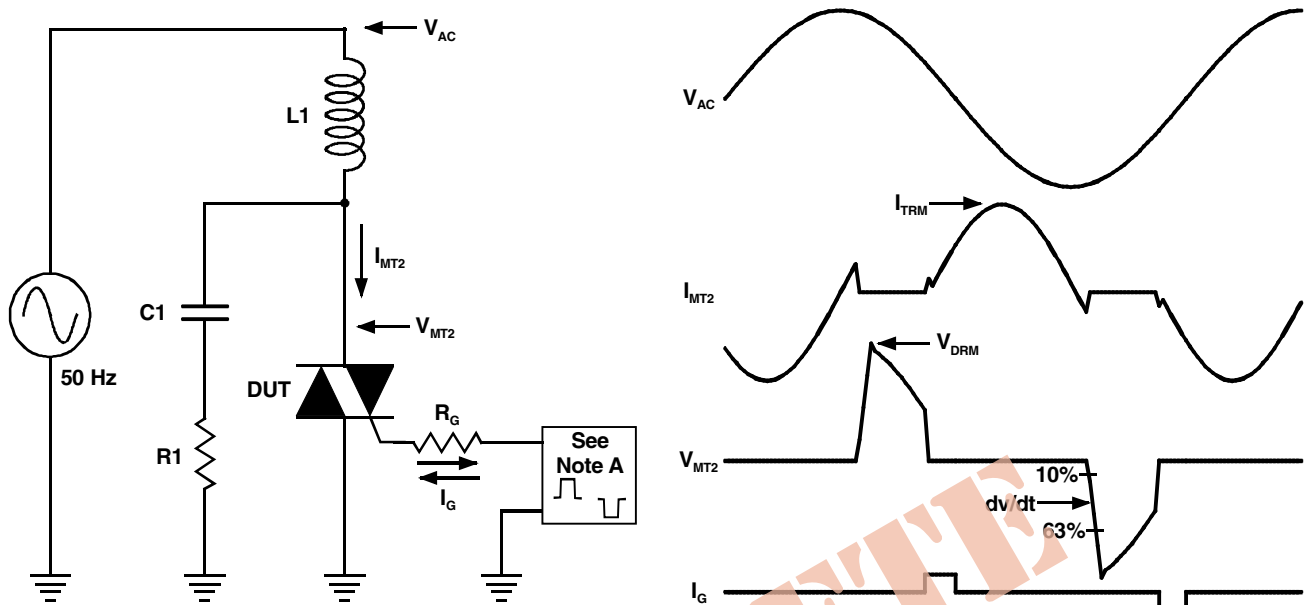


Figure 6.

PRODUCT INFORMATION

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Specifications are subject to change without notice.

PARAMETER MEASUREMENT INFORMATION



NOTE A: The gate-current pulse is furnished by a trigger circuit which presents essentially an open circuit between pulses. The pulse is timed so that the off-state-voltage duration is approximately 800 μ s.

PMC2AA

Figure 7.

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