

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

PARAMETER		TEST CONDITIONS			MIN	TYP	MAX	UNIT
I_H	Holding current	$V_{supply} = +12\text{ V} \dagger$	$I_G = 0$	Init' $I_{TM} = 100\text{ mA}$		22	40	mA
		$V_{supply} = -12\text{ V} \dagger$	$I_G = 0$	Init' $I_{TM} = -100\text{ mA}$		-12	-40	
I_L	Latching current	$V_{supply} = +12\text{ V} \dagger$	(see Note 5)				80	mA
		$V_{supply} = -12\text{ V} \dagger$					-80	
dv/dt	Critical rate of rise of off-state voltage	$V_D = \text{Rated } V_D$	$I_G = 0$	$T_C = 110^\circ\text{C}$		± 400		V/ μs
dv/dt _(c)	Critical rise of commutation voltage	$V_D = \text{Rated } V_D$ $di/dt = 0.5\text{ } I_{T(RMS)}/\text{ms}$		$T_C = 80^\circ\text{C}$ $I_T = 1.4\text{ } I_{T(RMS)}$	± 1.2	± 9		V/ μs
di/dt	Critical rate of rise of on-state current	$V_D = \text{Rated } V_D$ $di_G/dt = 50\text{ mA}/\mu\text{s}$	$I_{GT} = 50\text{ mA}$	$T_C = 110^\circ\text{C}$		± 100		A/ μs

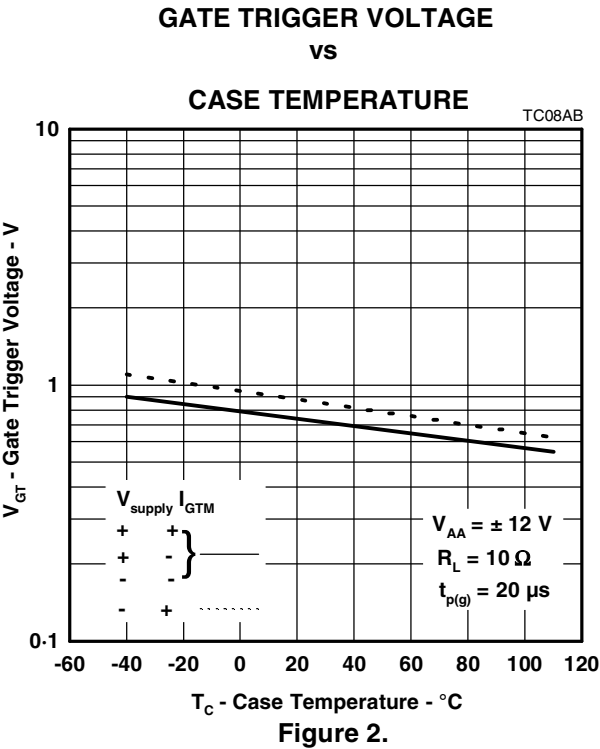
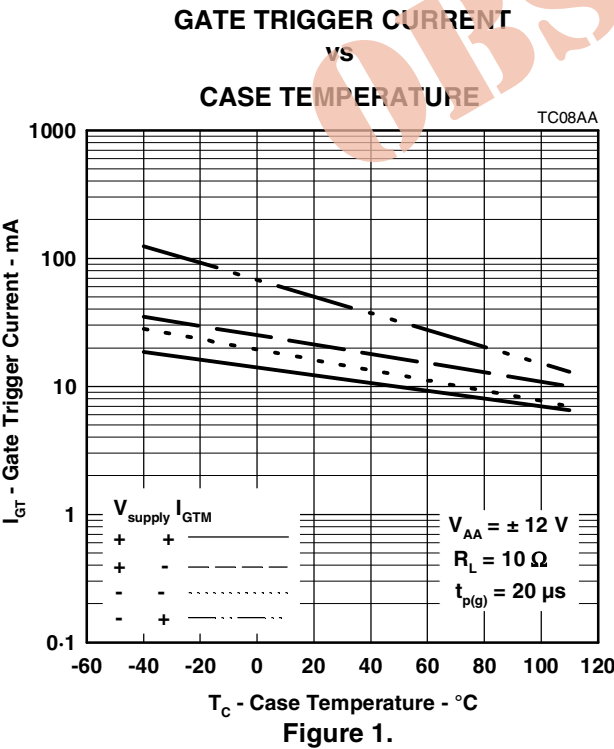
† All voltages are with respect to Main Terminal 1.

NOTE 5: 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			2	$^\circ\text{C}/\text{W}$
$R_{\theta JA}$	Junction to free air thermal resistance			62.5	$^\circ\text{C}/\text{W}$

TYPICAL CHARACTERISTICS



PRODUCT INFORMATION

TYPICAL CHARACTERISTICS

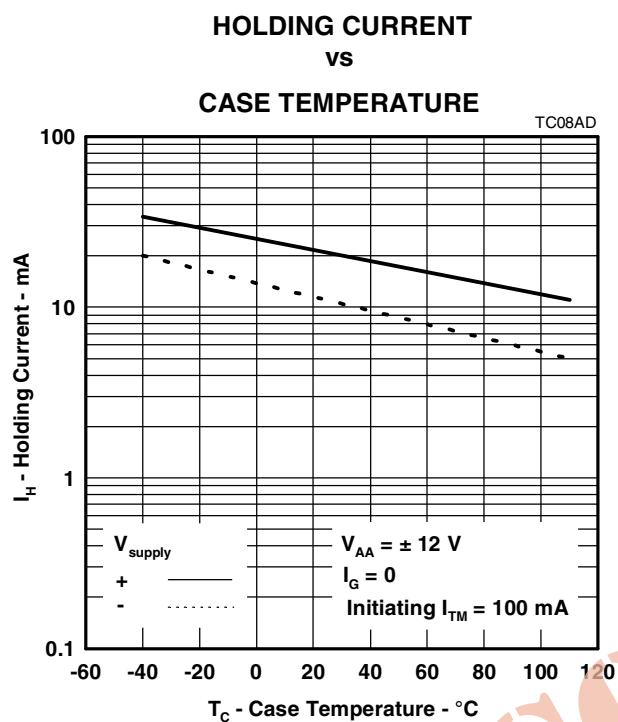


Figure 3.

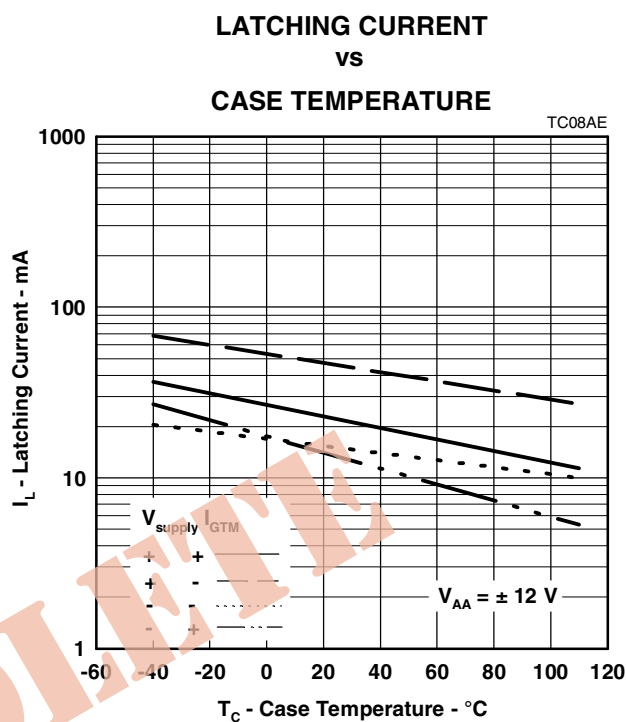


Figure 4.

PRODUCT INFORMATION

DECEMBER 1971 - REVISED SEPTEMBER 2002
Specifications are subject to change without notice.