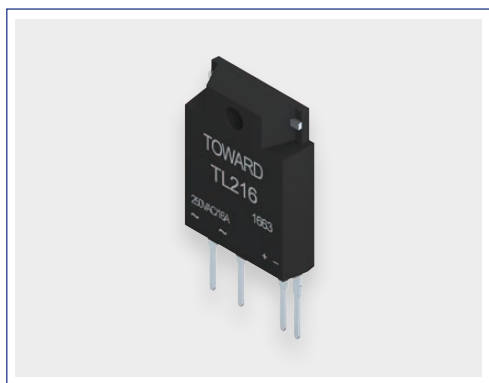




TL SERIES

DC INPUT & AC OUTPUT 8A/16A

APPLICATIONS

- Household appliance
- Programmable controller

KEY FEATURES

- High isolation voltage 4000 VAC between input & output
- 600 VDC peak blocking voltage
- Be suitable for 110 / 220 VAC power voltage
- Random-on & Zero-on types are available
- UL Recognized

ORDER CODE

TL-2 16 R-X

(a) (b) (c) (d) (e)

- (a) Model: TL = SIP 4 Pin Package
- (b) Output Voltage: 2 = 240VAC
- (c) Output Current: 08 = 8Amp; 16 = 16Amp
- (d) Turn-on Type: Nil = Zero on / R = Random-on
- (e) Option: Nil = Standard, 1-9 = Special Code

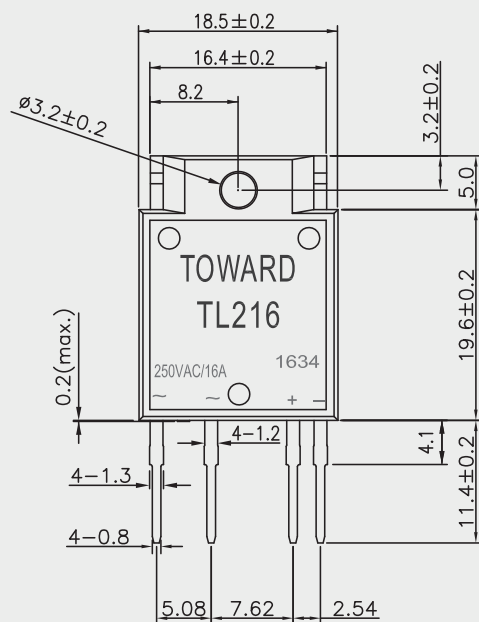
ABSOLUTE MAXIMUM RATINGS 絕對最大定格 (Ambient Temperature 周圍溫度 : 25°C)

ITEM		SYMBOL	RATING		UNIT
Outline Package			TL208(R)	TL216(R)	
Input 輸入	Forward Current 順向電流	I _F	50		mA
	Peak Forward Current 峰值順向電流	I _{FP}	1		A
	Reverse Voltage 逆向電壓	V _R	6		VAC
Output 輸出	Maximum Load Voltage 最大負荷電壓	V _{omax}	280		VAC
	Off-state Output Voltage 斷路輸出電壓	V _{DRM}	600		VDC
	On-state Output Current 通態輸出電流	I _{T(RMS)}	8	16	A
	Non-repetitive Surge Current 非重複性浪湧電流	I _{TSM}	80	160	A
Relay 繼電器	I/O Isolation Voltage 輸入/ 出間隔離電壓	V _{iso}	4000		VAC
	Operating Temperature 使用時溫度	T _{opr}	-25 ~ +100		°C
	Storage Temperature 保存溫度	T _{stg}	-35 ~ +125		°C

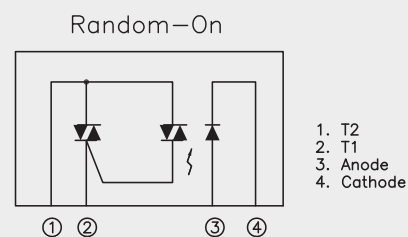
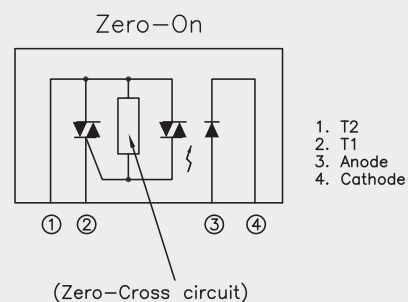
ELECTRICAL SPECIFICATIONS 電性規格 (Ambient Temperature 周圍溫度: 25°C)

ITEM	CONDITION	SYM.	MIN.	TYP.	MAX.	UNIT
Input 輸入	Forward Voltage 順向電壓	$I_F=10\text{mA}$	V_F	1.18	1.4	V
	Reverse Current 逆向電流	$V_R=5\text{V}$	I_R		10	μA
	Minimum Trigger Current 最小觸發電流	$V_D=6\text{V}$	I_{FT}		10	mA
	Recovery Input Voltage 復位輸入電壓		V_{FOFF}	0.5		V
Output 輸出	Leakage Voltage Range 漏電壓範圍		V_o	35	280	VAC
	Peak Leakage Current 峰值漏電流	$V_{DRM}=600\text{V}$	I_{DRM}		100	μA
	On-state Voltage 通態電壓	$I_T=\text{Rated } I_T$	V_{TM}		1.5	V
	Hold Current 保持電流	$V_{DRM}=600\text{V}/\sqrt{2}$	I_H		50	mA
	Rise Rate of Off-state 關態上升速率	$V_{DRM}=600\text{V}/\sqrt{2}$	dv/dt	30		V/ μs
Trans- mission 傳達	Turn-on Time (Random-on) 動作時間 (隨機啟動)	$I_F=20\text{mA}$	T_{ON}		1	mS
	Turn-on Time (Zero-on) 動作時間 (零啟動)		T_{ON}		10	mS
	Turn-off Time 復位時間		T_{OFF}		10	mS
Coupled 結合	I/O Isolation Resistance 輸入/ 出間隔離阻抗	$DC=500\text{V}$	R_{iso}	10^{10}		Ω

DIMENSIONS (Unit: mm)

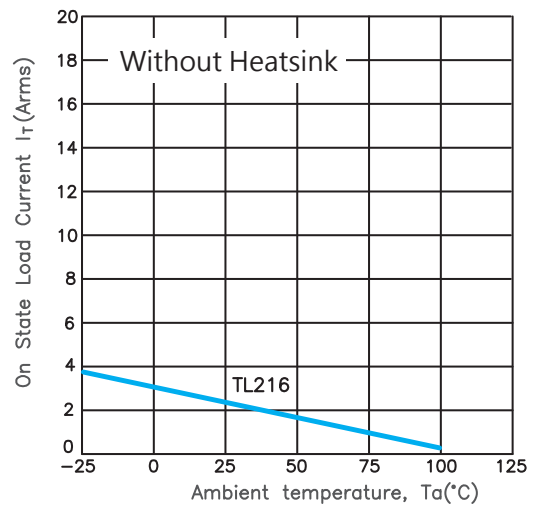
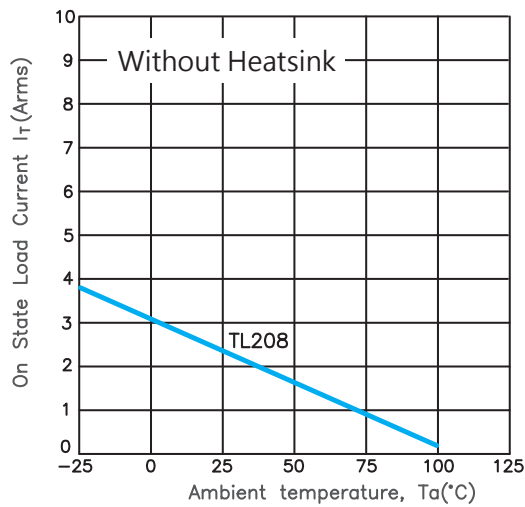


Equivalent Circuit (Top view)

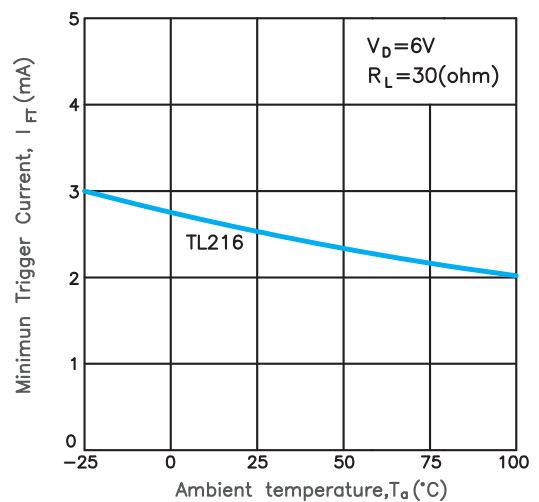
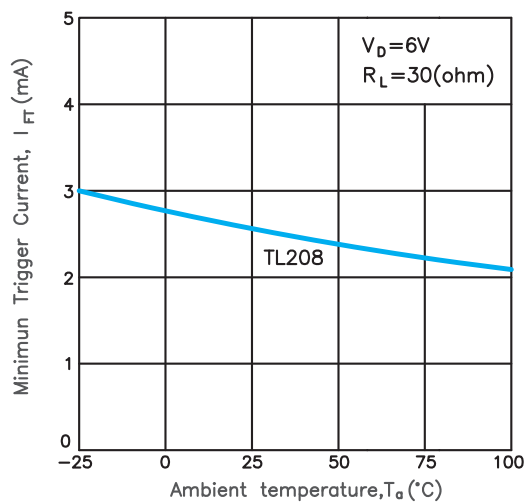


REFERENCE DATA

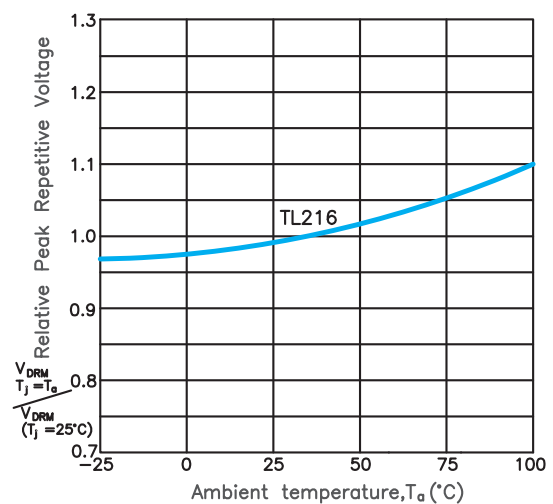
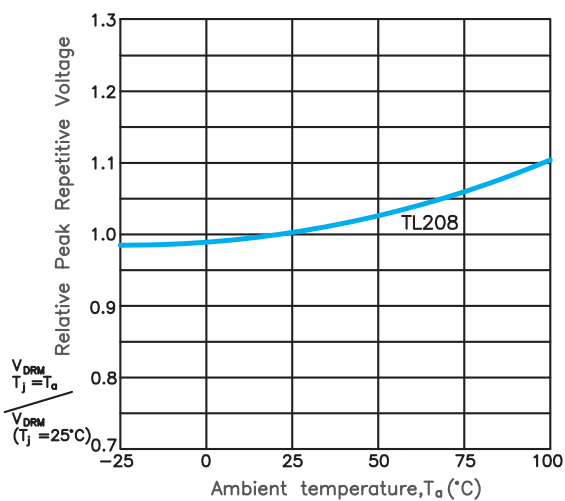
Maximum load current vs. Ambient temp.



Minimum trigger current vs. Ambient temp.

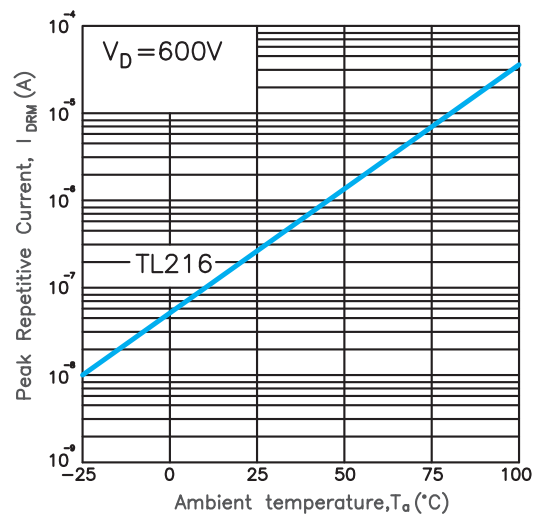
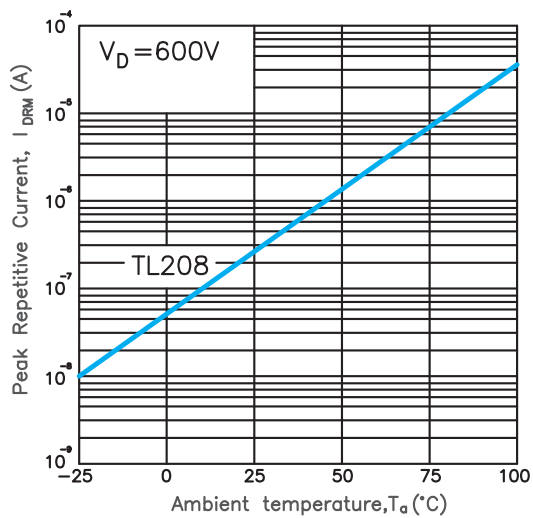


Relative peak repetitive voltage vs. Ambient temp.

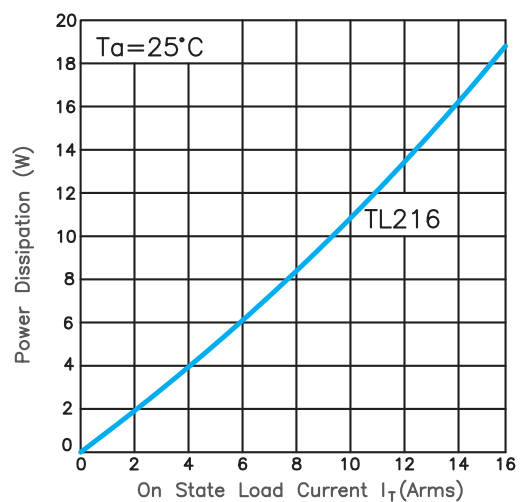
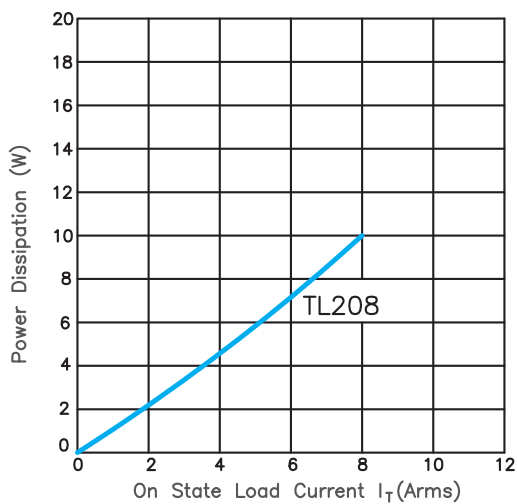


REFERENCE DATA

Peak repetitive current vs. Ambient temp.

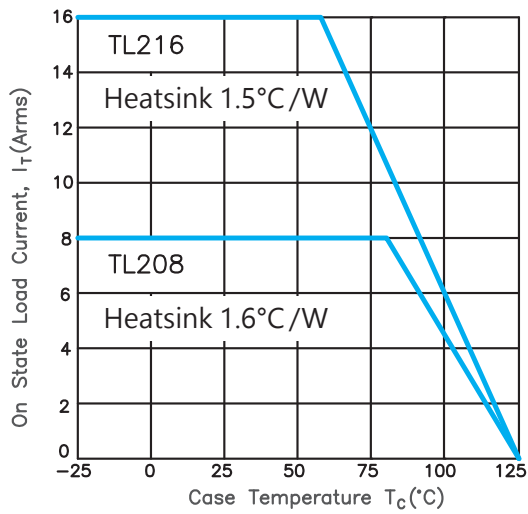
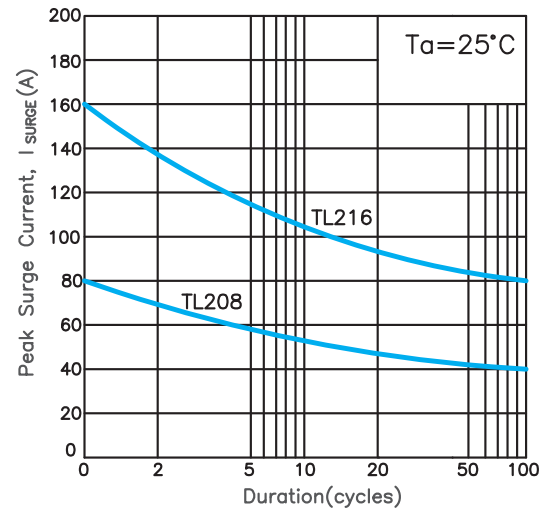


On state power dissipation vs. On state load current

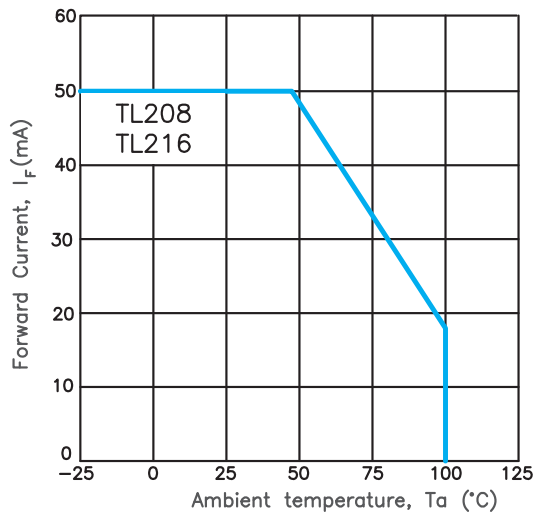


REFERENCE DATA

Maximum load current vs. Case temp.

Peak surge current vs. Duration
(Non Repetitive)

Forward current vs. Ambient temp.



Forward current vs. Forward voltage

