

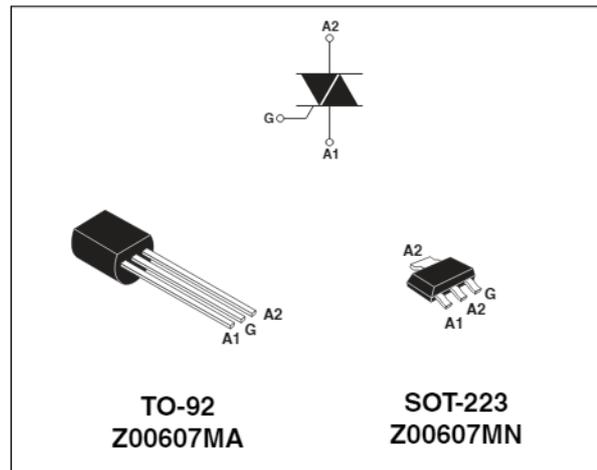
## Main Features

Symbol	Value	Unit
$I_{T(RMS)}$	0.8	A
$V_{DRM}/V_{RRM}$	600	V
$I_{GT(Q_1)}$	5	mA

## Description

The Z00607 is suitable for low power AC switching applications. Typical applications include home appliances (electrovalve, pump, door lock, small lamp control), fan speed controllers,...

Thanks to the low gate triggering current these triacs can be driven directly by microcontrollers.



## Order Codes

Part Number	Marking
Z00607MA 1BA2	Z0607MA
Z00607MA 2BL2	Z0607MA
Z00607MA 5BL2	Z0607MA
Z00607MN 5AA4	Z6M

**Table 1. Absolute maximum ratings**

Symbol	Parameter		Value	Unit	
$I_{T(RMS)}$	RMS on-state current (full sine wave)	SOT-223	$T_{tab} = 85^{\circ}C$	0.8	A
		TO-92	$T_L = 50^{\circ}C$		
$I_{TSM}$	Non repetitive surge peak on-state current (full cycle, $T_j$ initial = $25^{\circ}C$ )	F = 50 Hz	t = 20 ms	9	A
		F = 60 Hz	t = 16.7 ms	9.5	
$I^2t$	$I^2t$ Value for fusing	$t_p = 10$ ms		0.45	$A^2s$
dl/dt	Critical rate of rise of on-state current $I_G = 2 \times I_{GT}$ , $t_r \leq 100$ ns	F = 120 Hz	$T_j = 110^{\circ}C$	20	A/ $\mu s$
$I_{GM}$	Peak gate current	$t_p = 20$ $\mu s$	$T_j = 110^{\circ}C$	1	A
$P_{G(AV)}$	Average gate power dissipation	$T_j = 110^{\circ}C$		0.1	W
$T_{stg}$ $T_j$	Storage junction temperature range Operating junction temperature range			- 40 to + 150 - 40 to + 110	$^{\circ}C$