

SanRex®

TRIAC For High Power

$$I_{T(RMS)}=40A, V_{DRM}=600V$$

SanRex Triac **TG40E60** is specially designed use for high power AC switching application. Thanks to SanRex's new isolated diffusion technology, the Triac **TG40E60** features high dv/dt , $dv/dt/c$ and very low on-state voltage. These benefits make this design an extremely reliable and efficient device for use in wide variety of applications.

Features

- * High Power
- * High Surge Current
- * Low On-State Voltage
- * High Commutation Performance
- * UL registered E76102

Typical Applications

- * Home Appliances
- * Water Heaters
- * Heater Controls
- * Lighting Controls
- * Temperature Controls

< Maximum Ratings >

($T_j = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Item	Conditions	Ratings	Unit
V_{DRM}	Repetitive Peak Off-state Voltage		600	V
$I_{T(RMS)}$	R.M.S. On-state Current	$T_C = 64^\circ\text{C}$	40	A
I_{TSM}	Surge On-state Current	One cycle, 60Hz, Peak, non-repetitive	420	A
I^2t	I^2t (for fusing)	Value for one cycle surge current	730	A^2s
P_{GM}	Peak Gate Power Dissipation		10	W
$P_{G(AV)}$	Average Gate Power Dissipation		1	W
I_{GM}	Peak Gate Current		3	A
V_{GM}	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	$I_G = 100\text{mA}$, $V_D = 1/2V_{DRM}$, $di_G/dt = 1\text{A}/\mu\text{s}$	50	A/