SanRex®

TRIAC
For High Power

$I_{T(RMS)}$ =40A, V_{DRM}=800V

SanRex Triac **TG40E80** is specially designed use for high power AC switching application. Thanks to SanRex's new isolated diffusion technology, the Triac **TG40E80** 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> (Tj = 25°C unless otherwise noted)

Symbol	Item	Conditions	Ratings	Unit
V_{DRM}	Repetitive Peak Off-state Voltage		800	V
$I_{T(RMS)}$	R.M.S. On-state Current	T_C = 64℃	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 =100mA, V_D=1/2V_{DRM}, di_G/dt=1A/μs	50	A/