



NON INSULATED TYPE TRIAC (TO-220F PACKAGE)

Features

- * Repetitive Peak Off-State Voltage: 800V
- * R.M.S On-state Current($I_{T(RMS)}=8A$)
- * High Commutation dv/dt

General Description

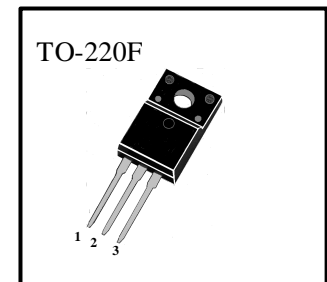
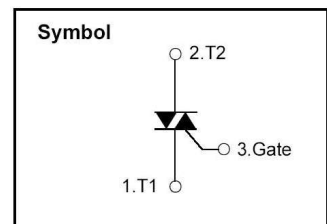
The Triac HTP8A80 is suitable for AC switching application, phase control application such as heater control, motor control, lighting control, and static switching relay.

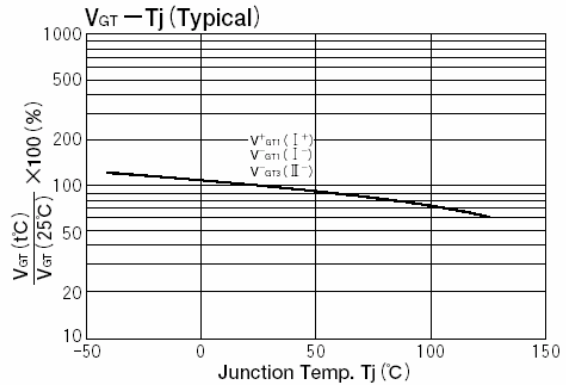
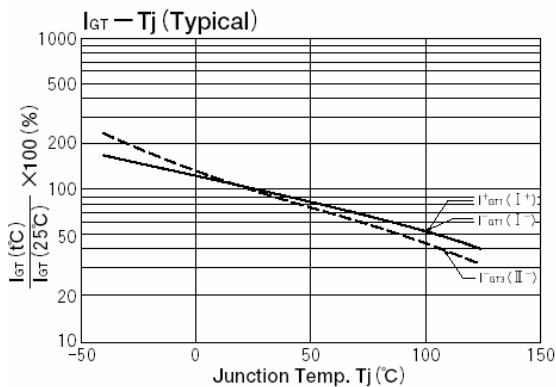
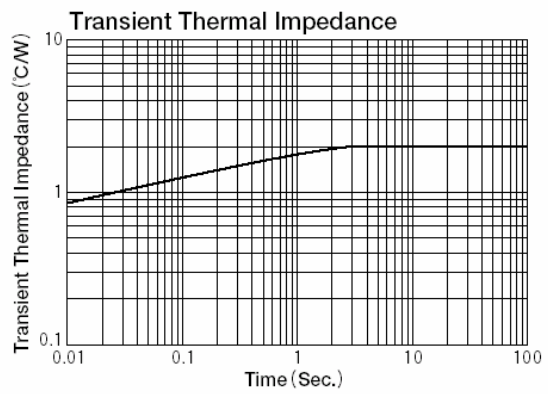
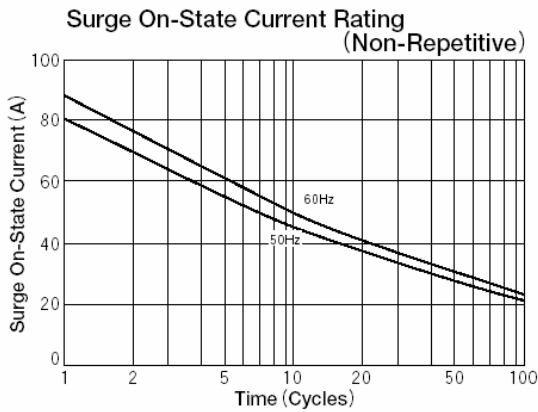
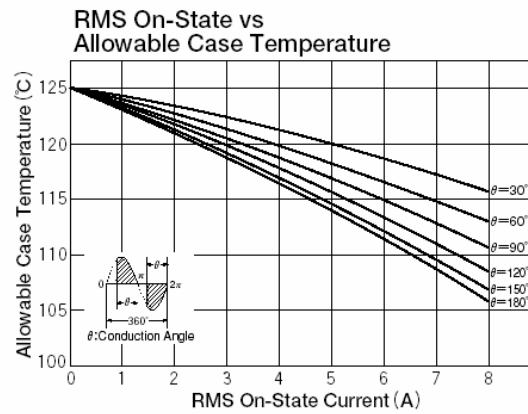
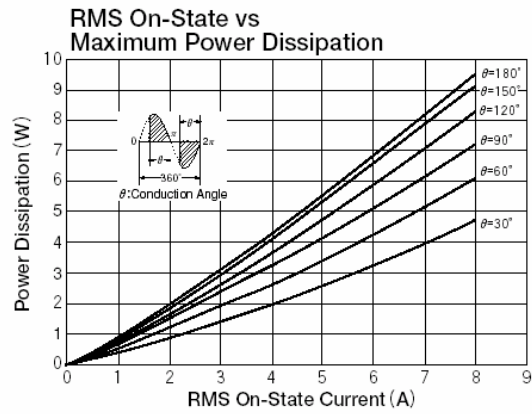
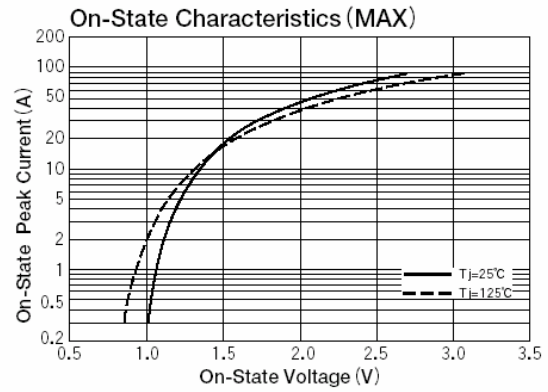
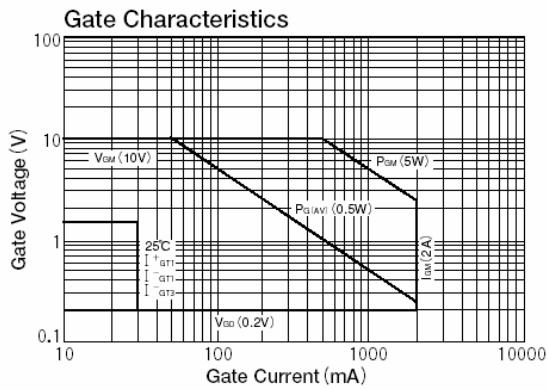
Absolute Maximum Ratings ($T_a=25$)

T_{stg} —Storage Temperature.....	-40~125
T_j —Operating Junction Temperature	-40~125
P_{GM} —Peak Gate Power Dissipation.....	5W
V_{DRM} —Repetitive Peak Off-State Voltage.....	800V
I_T (RMS)—R.M.S On-State Current ($T_a=105$)	8A
V_{GM} —Peak Gate Voltage.....	10V
I_{GM} —Peak Gate Current.....	2.0A
I_{TSM} —Surge On-State Current (One Cycle, 50/60Hz,Peak,Non-Repetitive).....	80/88A

Electrical Characteristics ($T_a=25$)

Symbol	Items	Min.	Typ.	Max.	Unit	Conditions
I_{DRM}	Repetitive Peak Off-State Current			2.0	mA	$V_D=V_{DRM}$, Single Phase,Half Wave, $T_j=125$
V_{TM}	Peak On-State Voltage			1.4	V	$I_T=12A$, Inst. Measurement
I_{+GT1}	Gate Trigger Current ()			30	mA	$V_D=6V$, $R_L=10$ ohm
I_{-GT1}	Gate Trigger Current ()			30	mA	$V_D=6V$, $R_L=10$ ohm
I_{-GT3}	Gate Trigger Current ()			30	mA	$V_D=6V$, $R_L=10$ ohm
V_{+GT1}	Gate Trigger Voltage ()			1.5	V	$V_D=6V$, $R_L=10$ ohm
V_{-GT1}	Gate Trigger Voltage ()			1.5	V	$V_D=6V$, $R_L=10$ ohm
V_{-GT3}	Gate Trigger Voltage ()			1.5	V	$V_D=6V$, $R_L=10$ ohm
V_{GD}	Non-Trigger Gate Voltage	0.2			V	$T_j=125$, $V_D=1/2V_{DRM}$
$(dv/dt)_c$	Critical Rate of Rise of Off-State Voltage at Commutation	10			V/ μ S	$T_j=125$, $V_D=400V$ $(di/dt)_c=-4A/ms$
I_H	Holding Current		15		mA	
$R_{th(j-c)}$	Thermal Resistance			3.7	/W	Junction to case







Trigger mode of the triac

