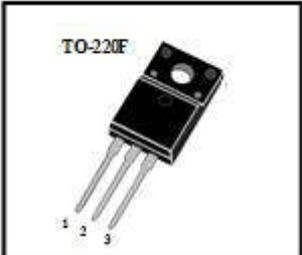
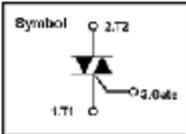


Product profile

- Triac in a TO-220F plastic package.
- Solid-state switch
- Microwave
- Duplicator
- $V_{DRM} \geq 600\text{ V}$
- $I_{GT} = 30\text{ mA}$
- $I_T = 8\text{ A}$
- $V_{ISO} = 1500\text{ V}$

Pinning information

Pin	Description	Simplified outline	Symbol
1	T1		
2	T2		
3	Gate		

Limiting values

Symbol	Parameter	Conditions	Min	Max	Unit
T_{stg}	Storage temperature		-40	125	°C
T_j	Junction Temperature		-40	125	°C
V_{DRM}	Repetitive peak off-state voltage		600		V
$I_T(\text{RMS})$	RMS on-state current	($T_a = 107\text{ °C}$)	8		A
V_{GM}	Peak gate voltage		10		V
I_{GM}	Peak gate current		2		A
V_{ISO}	Breakdown voltage (RMS, AC 1 minute)		1500		V

Characteristics

$T_J = 25^\circ\text{C}$ unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
I _{DRM}	Repetitive peak off-state current	V _D = V _{DRM} , single-phase, half wave, T _J = 125 °C			2	mA
V _{TM}	Peak on-state voltage	I _T = 20A, fast measurements			1.4	V
I _{+GT1}	Gate Trigger Current	V _D =6V, R _L =10 ohm			30	mA
I _{-GT1}	Gate Trigger Current	V _D =6V, R _L =10 ohm			30	mA
I _{-GT3}	Gate Trigger Current	V _D =6V, R _L =10 ohm			30	mA
V _{+GT1}	Gate trigger voltage	V _D =6V, R _L =10 ohm			1.5	V
V _{-GT1}	Gate trigger voltage	V _D =6V, R _L =10 ohm			1.5	V
V _{-GT3}	Gate trigger voltage	V _D =6V, R _L =10 ohm			1.5	V
V _{GD}	Does not trigger the gate voltage	T _J =125 °C, V _D =1/2V _{DRM}	0.2			V
(dv/dt) _c	Critical rate of rise of off-state voltage	(di/dt) _c =-6.0A/ms	10			V/μS
R _{th(j-c)}	Thermal Resistance	Junction to Case			3.7	°C/W
I _H	Maintain current	Junction to Case			15	mA

* Note 1: The drain current is limited by maximum junction temperature limit.

* Note 2: Pulse Test, width ≤ 300 μ S, ≤ 2% duty cycle

Characteristics

Figure I, Gate characteristic

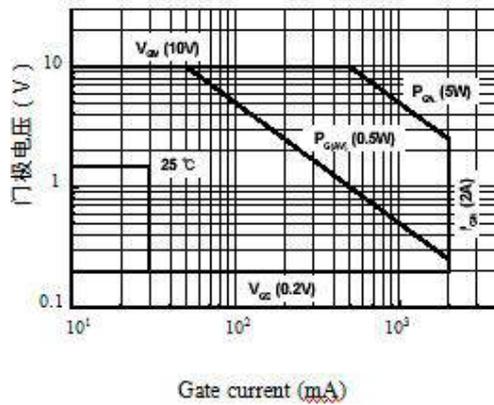


Figure II, on-state voltage

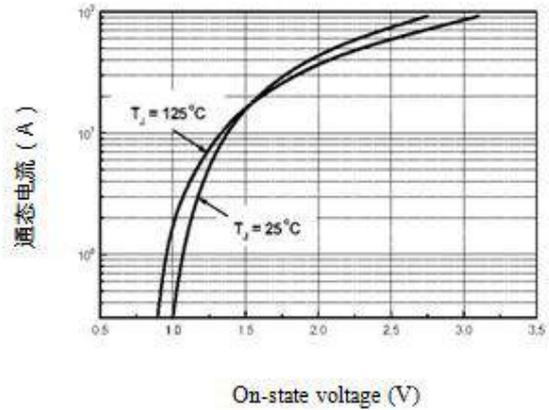


Figure III, the gate trigger voltage junction temperature

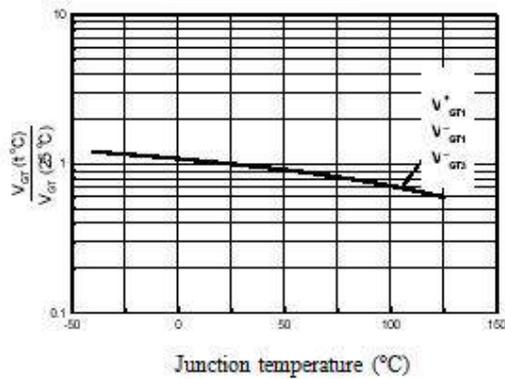


Figure IV-state current maximum power consumption

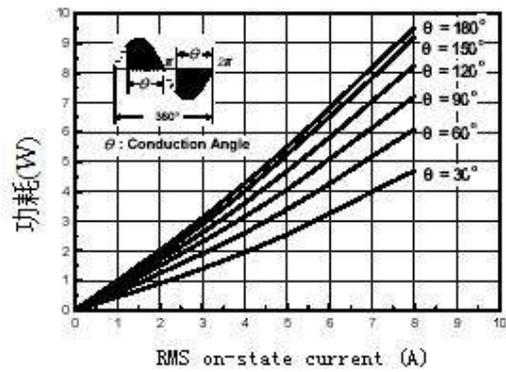


Figure V, on-state current case temperature

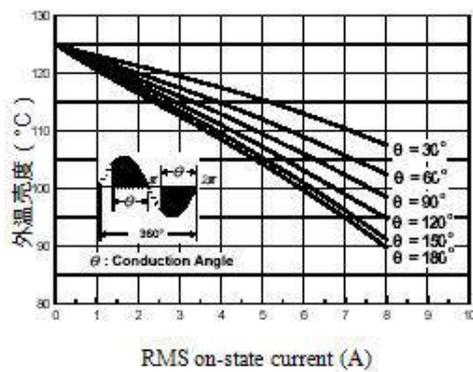
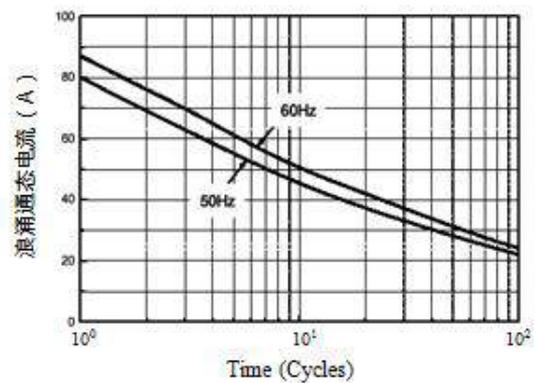


Figure VI, the maximum surge on-state current (non-repetition)



Characteristics

Figure VII, the gate trigger current
Junction Temperature

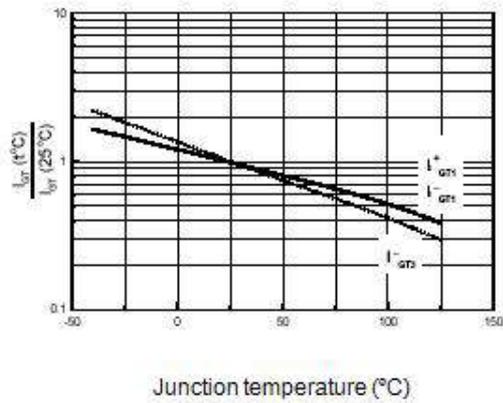


Figure Eight, transient thermal resistance

