迪一電子®

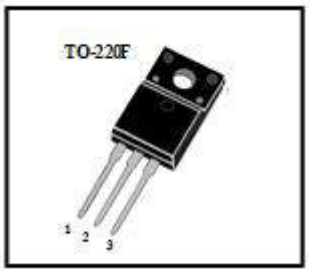
P8A60 Insulated Triac

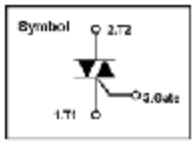
Product profile

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

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	℃
T_j	Junction Temperature		-40	125	℃
V_{DRM}	Repetitive peak off-state voltage		600		V
$I_{T(RMS)}$	RMS on-state current	(Ta = 107 ℃)	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

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Characteristics

T_j = 25 °C unless otherwise specified.

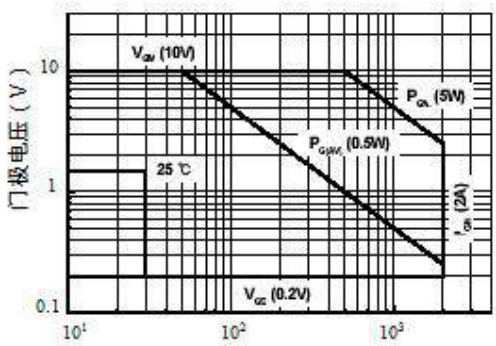
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
IDRM	Repetitive peak off-state current	VD = VDRM, single-phase, half wave, TJ = 125 ℃			2	mA
VTM	Peak on-state voltage	IT = 20A, fast measurements			1.4	V
I+GT1	Gate Trigger Current	VD=6V, RL=10 ohm			30	mA
I-GT1	Gate Trigger Current	VD=6V, RL=10 ohm			30	mA
I-GT3	Gate Trigger Current	VD=6V, RL=10 ohm			30	mA
V+GT1	Gate trigger voltage	VD=6V, RL=10 ohm			1.5	V
V-GT1	Gate trigger voltage	VD=6V, RL=10 ohm			1.5	V
V-GT3	Gate trigger voltage	VD=6V, RL=10 ohm			1.5	V
VGD	Does not trigger the gate voltage	TJ=125℃, VD=1/2VDRM	0.2			V
(dv/dt)c	Critical rate of rise of off-state voltage	(di/dt)c=-6.0A/ms	10			V/μS
Rth(j-c)	Thermal Resistance	Junction to Case			3.7	℃/W
IH	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

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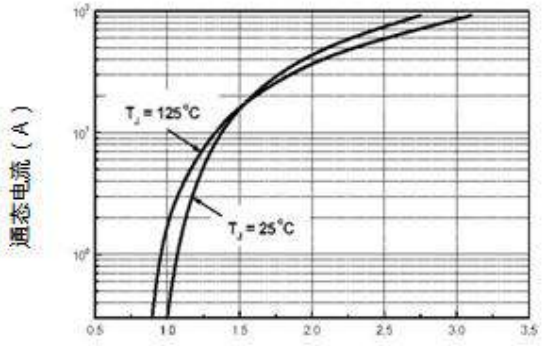
Characteristics

Figure I, Gate characteristic



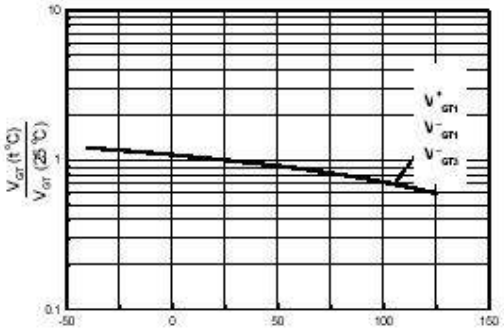
Gate current (mA)

Figure II, on-state voltage



On-state voltage (V)

Figure III, the gate trigger voltage junction temperature



Junction temperature (°C)

Figure IV-state current maximum power consumption

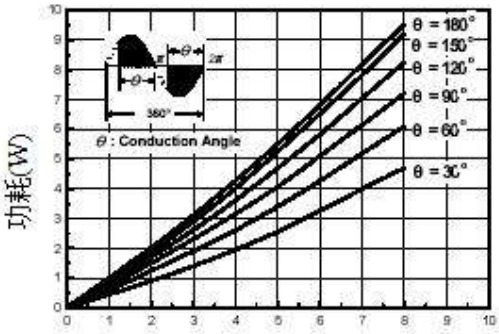
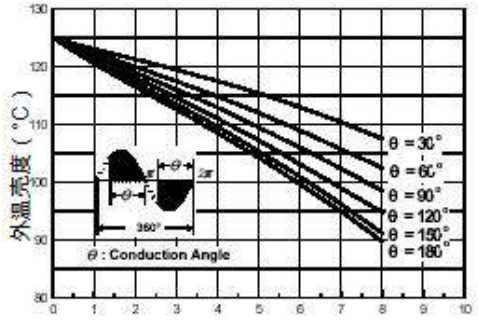
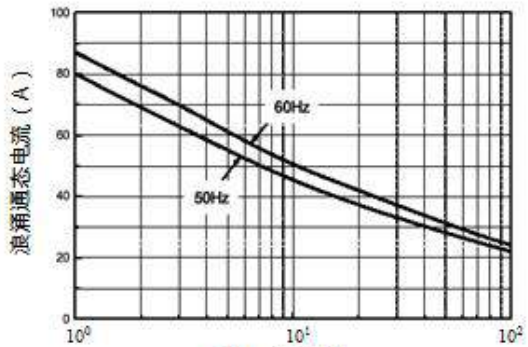


Figure V, on-state current case temperature



RMS on-state current (A)

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

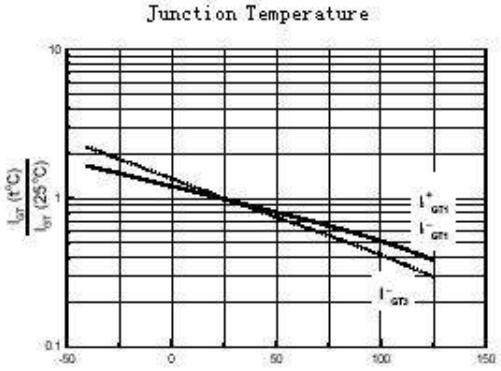


Time (Cycles)

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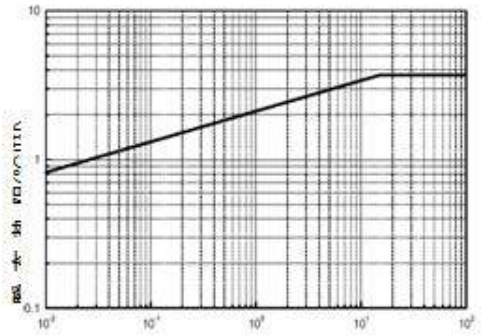
Characteristics

Figure VII, the gate trigger current



Junction temperature (°C)

Figure Eight, transient thermal resistance



Time (sec)

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