#### **THERMAL CHARACTERISTICS**

Characteristic	Symbol	Value	Unit
Thermal Resistance - Junction to Case - Junction to Ambient	RthJC RthJA	75 150	°C <b>/W</b>
Maximum Lead Temperature for Soldering Purposes 1/16" from Case for 10 Seconds	TL	260	°C

## **ELECTRICAL CHARACTERISTICS** (TJ=25 $^{\circ}$ C unless otherwise noted)

Characteristics		Symbol		Min	Тур	Max	Unit	
OFF CHARACTERISTICS				1			1	
Peak Reptitive Forward or Reverse Blocking Current $T_J=25^{\circ}C$ (VD=Rated VDRM and VRRM; RGK =1K Ohms) $T_J=110^{\circ}C$		Idrm Irrm				10 100	uA	
ON CHARACTERISTICS								
Peak Forward On-State Voltage (ITM= ± 1.6A Peak, Pulse Width $\leq$ 1.0ms, Duty Cycle $\leq$ 1%	b) VTM		Vтм			1.7	Volts	
Gate Trigger Current(VD= 7.0 Vdc,RL=100 Ohms) (1)			S08U25			25		
		lgт	lgт	S08U50			50	uA
			S08M02			200		
Holding Current(VD= 7.0 Vdc, Intitiating Current = 20mA)	TJ=25℃	<u> </u>				5	mA	
	TJ=-40℃	1 "			10			
Gate Trigger Voltage(VD= 7.0 Vdc,RL=100 Ohms) (1)	TJ=22℃	Vot				0.8	Volte	
	T <sub>J</sub> =-40℃	VGI	vGI			1.2	VUILS	
	TJ=25℃	- IL	h			10	m۸	
Laten Current(VD= 7.0 Vac, RL 100 Ohms)			1			15	mA	

#### **DYNAMIC CHARACTERISTICS**

Critical Rate of Rise of Off-State Voltage (VD=Rated VDRM,Exponential Waveform, PGK=1K Ohms, TJ=110°C	dv/dt	20	 	V/us	

(1) RGK current is not included in measurement

## **RATING AND CHARACTERISTIC CURVES S08-A SERIES**



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