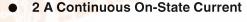
#### 查询SC2092供应商



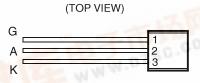
# 走多邦,专业PCB打样工厂,24小时加急出货

## SC 2092 SERIES SILICON CONTROLLED RECTIFIERS

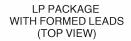


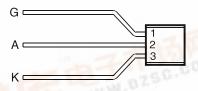
- 15 A Surge-Current
- Glass Passivated Wafer
- 400 V to 600 V Off-State Voltage
- Max I<sub>GT</sub> of 200 μA
- Package Options

	PACKAGE	PACKING	PART # SUFFIX		
LP LP with fomed leads		Bulk	(None)		
		Tape and Reel	R		



LP PACKAGE





#### absolute maximum ratings over operating case temperature (unless otherwise noted)

RATING			VALUE	UNIT	
Depositive peak off state voltage (see Note 1)	SC2092-400-15		400	\/	
Repetitive peak off-state voltage (see Note 1)	SC2092-600-15	$V_{DRM}$	600	V	
Popotitivo pook roverso voltago	SC2092-400-15		400	V	
Repetitive peak reverse voltage	SC2092-600-15	$V_{RRM}$	600	V	
Continuous on-state current at (or below) 85°C case temperature (see Note 2)			2	Α	
Surge on-state current (see Note 3)			15	Α	
Peak positive gate current (pulse width ≤ 300 μs)			0.2	Α	
Average gate power dissipation (see Note 4)			0.3	W	
Operating case temperature range			-40 to +110	°C	
Storage temperature range			-40 to +125	°C	
Lead temperature 3.2 mm from case for 10 seconds			230	°C	

- NOTES: 1. These values apply when the gate-cathode resistance  $R_{GK} = 1 \text{ k}\Omega$ .
  - 2. These values apply for continuous dc operation with resistive load. Above 85°C derate linearly to zero at 110°C.
  - 3. This value applies for one 50 Hz half-sine-wave when the device is operating at (or below) the rated value of peak reverse voltage and on-state current. Surge may be repeated after the device has returned to original thermal equilibrium.
  - 4. This value applies for a maximum averaging time of 20 ms.



# SC 20 SERIES SILICON CONTROLLED RECTIFIERS

#### electrical characteristics at 25°C case temperature (unless otherwise noted)

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	
I <sub>DRM</sub>	Repetitive peak	V <sub>D</sub> = rated V <sub>DBM</sub>	$R_{GK} = 1 k\Omega$				20	μА
	off-state current Repetitive peak							
RRM	reverse current	$V_R = \text{rated } V_{RRM}$	$I_{G} = 0$				200	μA
I <sub>GT</sub>	Gate trigger current	V <sub>AA</sub> = 6 V	$R_L = 100 \Omega$	t <sub>p(g)</sub> ≥ 20 μs		60	200	μΑ
V <sub>GT</sub>	Gate trigger voltage	V <sub>AA</sub> = 6 V	$R_L = 100 \Omega$ $R_{GK} = 1 k\Omega$	$t_{p(g)} \geq 20~\mu s$	0.4		1	<b>&gt;</b>
Iн	Holding current	V <sub>AA</sub> = 6 V	$R_{GK} = 1 k\Omega$	Initiating $I_T = 10 \text{ mA}$			5	mA
V <sub>TM</sub>	Peak on-state voltage	I <sub>TM</sub> = 1 A	(see Note 5)				1.5	٧

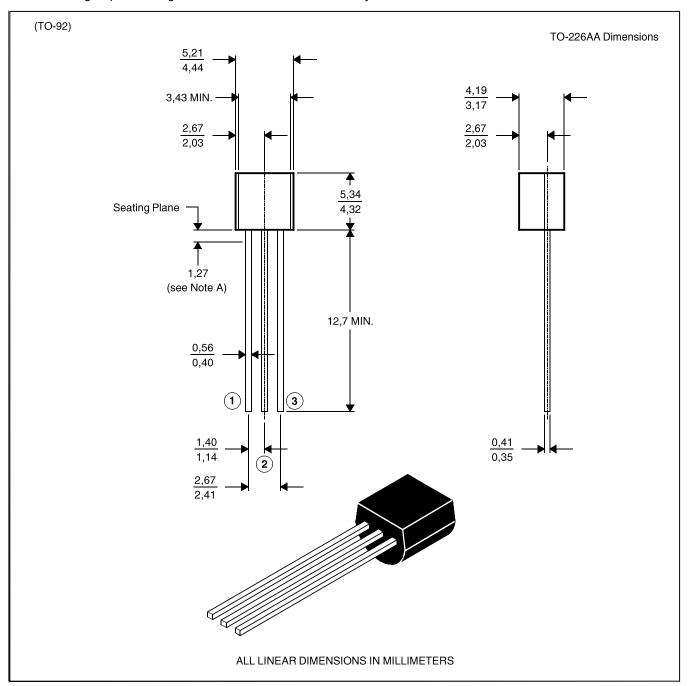
NOTE 5: This parameter must be measured using pulse techniques, t<sub>p</sub> = 1 ms, duty cycle ≤ 2 %. Voltage sensing-contacts, separate from the current carrying contacts, are located within 3.2 mm from the device body.

#### **MECHANICAL DATA**

### (TO-92)

#### 3-pin cylindical plastic package

This single-in-line package consists of a circuit mounted on a lead frame and encapsulated within a plastic compound. The compound will withstand soldering temperature with no deformation, and circuit performance characteristics will remain stable when operated in high humidity conditions. Leads require no additional cleaning or processing when used in soldered assembly.



NOTE A: Lead dimensions are not controlled in this area.

#### **MECHANICAL DATA**

#### tape dimensions

