



**Solid State Devices, Inc.**

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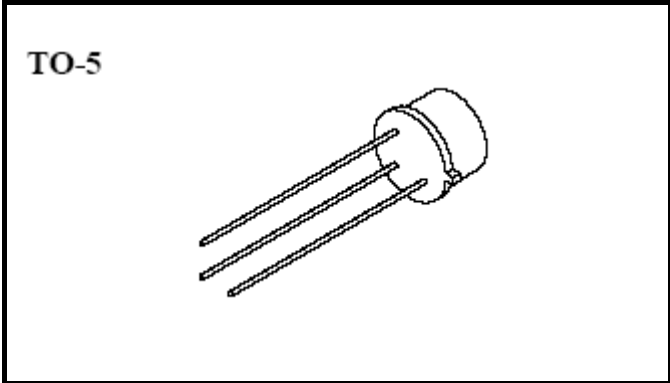
**SFS2326 thru SFS2329**

**1.6 AMPS  
 200 – 400 VOLTS  
 SILICON CONTROLLED  
 RECTIFIER**

**Designer's Data Sheet**

**FEATURES:**

- Low-Level Gate Characteristics
- $I_{GT} = 200 \mu A$  (Max) @ 25°C
- Low Holding Current  $I^H = 1 mA$  (Max) @ 25°C
- Anode Common to Case
- Hermetically Sealed



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SFS2326	$V_{DRM}$	200	Volts
	SFS2327		250	
	SFS2328	$V_{RRM}$	300	
	SFS2329		400	
Non-Repetitive Peak Reverse Blocking Voltage ( $t < 5.0 ms$ )	SFS2326	$V_{RSM}$	300	Volts
	SFS2327		350	
	SFS2328		400	
	SFS2329		500	
RMS On-State Current (All Conduction Angles)		$I_{T(RMS)}$	1.6	Amps
Peak Non-Repetitive Surge Current (One Cycle, 60 Hz, $T_C = 80^\circ C$ )		$I_{TSM}$	15	Amps
Peak Gate Power		$P_{GM}$	0.1	Watts
Average Gate Power		$P_{G(AV)}$	0.01	Watts
Peak Gate Current		$I_{GM}$	0.1	Amps
Peak Gate Voltage		$V_{GM}$	6.0	Volts
Operating Junction Temperature Range		$T_J$	-65 to +125	°C
Storage Temperature Range		$T_{stg}$	-65 to +150	°C
Thermal Resistance, Junction to Case		$R_{\theta JC}$	30	°C/W

NOTE: All specifications are subject to change without notification.  
 SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: SCR004A

DOC



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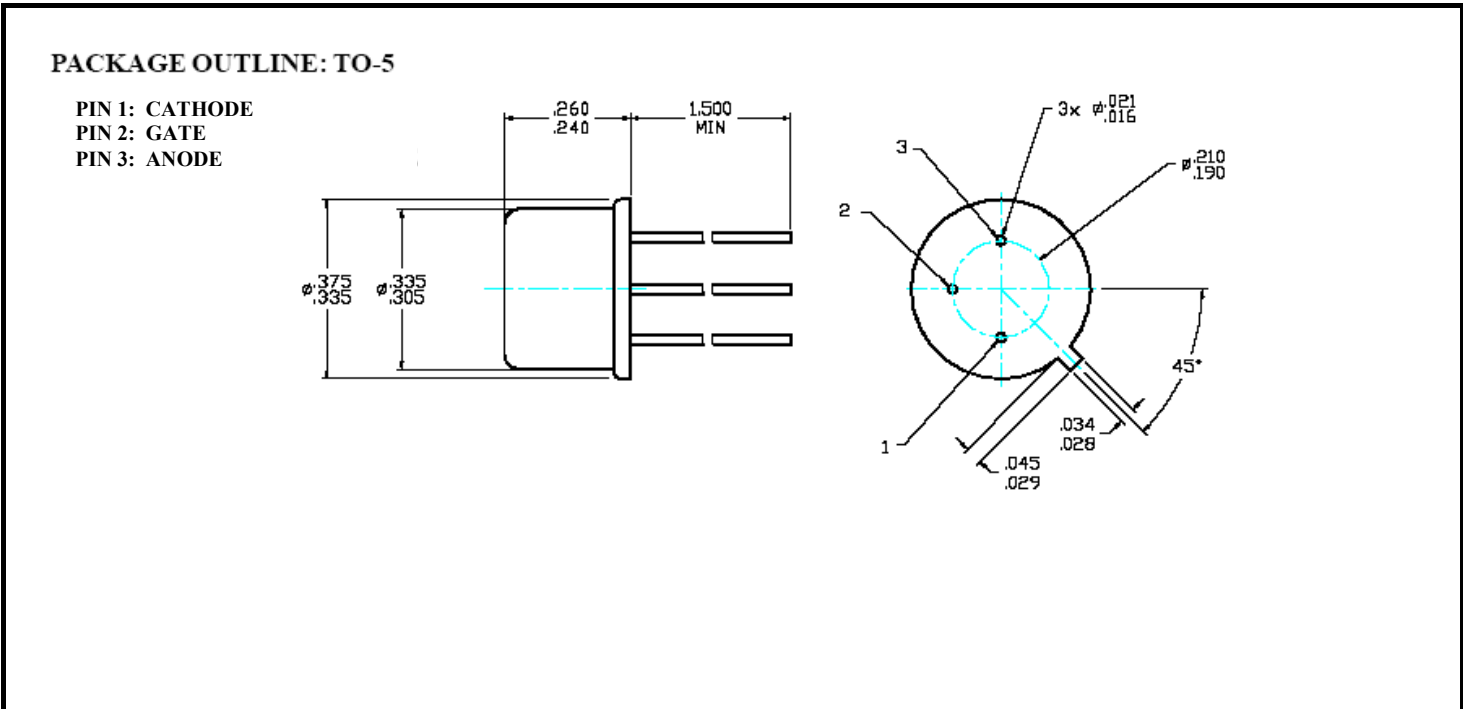
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**SFS2326 thru SFS2329**

ELECTRICAL CHARACTERISTICS	Symbol	Min	Max	Unit
<b>Peak Reverse Blocking Current</b> (Rated $V_{RRM}$ , $T_C = 25^\circ\text{C}$ )	$I_{RRM}$	—	0.75	$\mu\text{A}$
<b>Peak Forward Blocking Current</b> (Rated $V_{RRM}$ , $T_C = 25^\circ\text{C}$ ) (Rated $V_{RRM}$ , $T_C = 125^\circ\text{C}$ )	$I_{DRM}$	—	1 100	$\mu\text{A}$
<b>Peak On-State Voltage</b> ( $I_F = 1.6 \text{ A Peak}$ )	$V_{TM}$	—	1.3	Volts
<b>Gate Trigger Current</b> ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = 125^\circ\text{C}$ ) ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = -65^\circ\text{C}$ )	$I_{GT}$	— —	200 350	$\mu\text{A}$
<b>Gate Trigger Voltage</b> ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = 25^\circ\text{C}$ ) ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = -65^\circ\text{C}$ ) ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = 125^\circ\text{C}$ )	$V_{GT}$	— — 0.1	0.7 0.9 0.9	Volts
<b>Holding Current</b> ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = 25^\circ\text{C}$ ) ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = -65^\circ\text{C}$ ) ( $V_D = 6 V_{DC}$ , $R_L = 100 \Omega$ , $T_C = 125^\circ\text{C}$ )	$I_H$	0.8 1.5 0.15	2.0 3.0 —	mA

**NOTES:**

\* RGK current is not included in measurement



\*For information on curves, contact the Factory Representative for Engineering Assistance.