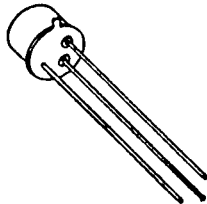


X00066

|                                                                                       |                                                                                            |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| SFS2326 through SFS2329<br>1.6 AMP<br>SILICON CONTROLLED RECTIFIER<br>200 - 400 VOLTS | SSDI                                                                                       |
|                                                                                       | 14849 FIRESTONE BLVD.<br>LA MIRADA, CA 90638<br>TEL: (213) 921-9660<br>FAX: (213) 921-2396 |

# CASE STYLE T0-5



## FEATURES

- ▶ LOW-LEVEL GATE CHARACTERISTICS
- ▶  $IGT = 200 \mu A$  (MAX) @ 25C
- ▶ LOW HOLDING CURRENT  $I_H = 1mA$  MAX @ 25 °C
- ▶ ANODE COMMON TO CASE
- ▶ HERMETICALLY SEALED

## MAXIMUM RATINGS (TJ=125 °C unless otherwise noted, RGK=1000 Ω)

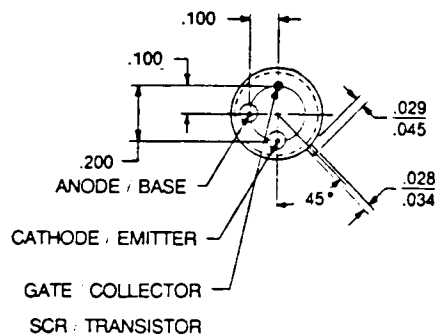
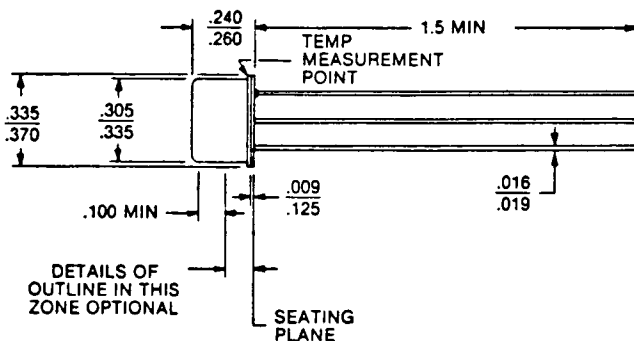
| RATING                                                                                               | SYMBOL              | VALUE                    | UNIT  |
|------------------------------------------------------------------------------------------------------|---------------------|--------------------------|-------|
| Peak Repetitive Forward and Reverse Blocking Voltage<br>SFS2326<br>SFS2327<br>SFS2328<br>SFS2329     | VDRM<br>and<br>VRRM | 200<br>250<br>300<br>400 | Volts |
| Non-repetitive Peak Reverse Blocking Voltage (t < 5.0ms)<br>SFS2326<br>SFS2327<br>SFS2328<br>SFS2329 | VRSM                | 300<br>350<br>400<br>500 | Volts |
| RMS On-State Current<br>(All Conduction Angles)                                                      | IT(RMS)             | 1.6                      | Amps  |
| Peak Non-Repetitive Surge Current<br>(One Cycle, 60Hz, TC = 80 °C)                                   | ITSM                | 15                       | Amps  |
| Peak Gate Power                                                                                      | PGM                 | 0.1                      | Watt  |
| Average Gate Power                                                                                   | PG(AV)              | 0.01                     | Watt  |
| Peak Gate Current                                                                                    | IGM                 | 0.1                      | Amps  |
| Peak Gate Voltage                                                                                    | VGM                 | 6.0                      | Volts |
| Operating Junction Temperature Range                                                                 | TJ                  | -65 to +125              | °C    |
| Storage Temperature Range                                                                            | Tstg                | -65 to +150              | °C    |
| Thermal Resistance Junction to Case                                                                  | θJC                 | 30                       | °C/W  |

# ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC                                                                                                                         | SYMBOL | MIN                | MAX               | UNITS |
|----------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|-------------------|-------|
| Peak Reverse Blocking Current<br>(Rated VRRM) TC = 25 °C                                                                               | IRRM   | -                  | 1                 | μA    |
| Peak Forward Blocking Current<br>(Rated VDRM) TC = 25 °C<br>TC = 125 °C                                                                | IDRM   | -                  | 1<br>100          | μA    |
| Peak On-State Voltage<br>(IF = 1.6A Peak)                                                                                              | VTM    | -                  | 1.3               | Volts |
| Gate Trigger Current *<br>(VD = 6Vdc, RL = 100 Ω, TC=125 °C)<br>(VD = 6Vdc, RL = 100 Ω, TC=-65 °C)                                     | IGT    | -<br>-             | 200<br>350        | μA    |
| Gate Trigger Voltage<br>(VD = 6Vdc, RL = 100 Ω, TC= 25 °C)<br>(VD = 6Vdc, RL = 100 Ω, TC=-65 °C)<br>(VD = 6Vdc, RL = 100 Ω, TC=125 °C) | VGT    | -<br>-<br>0.1      | 0.7<br>0.9<br>0.9 | Volts |
| Holding Current<br>(VD = 6Vdc, RKG = 1K Ω, TC= 25 °C)<br>(VD = 6Vdc, RKG = 1K Ω, TC=-65 °C)<br>(VD = 6Vdc, RKG = 1K Ω, TC=125 °C)      | IH     | 0.8<br>1.5<br>0.15 | 2.0<br>3.0<br>-   | mA    |

\*) RGK current is not included in measurement.

## PHYSICAL DIMENSIONS



## CURRENT DERATING

FIGURE 1 - CASE TEMPERATURE

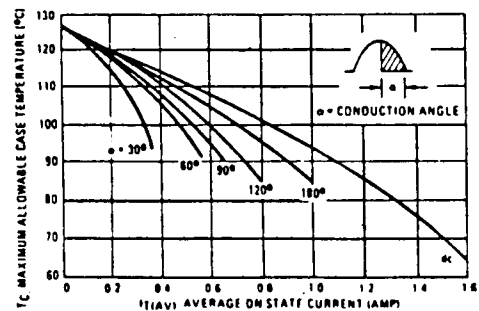
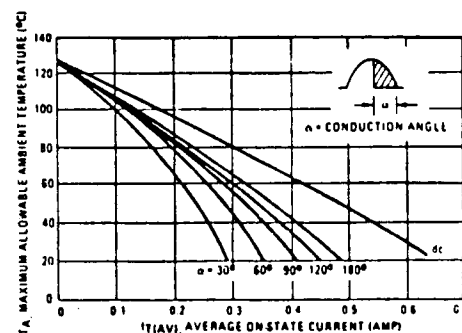


FIGURE 2 - AMBIENT TEMPERATURE



SSDI

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