

State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638

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Designer's Data Sheet

Part Number/Ordering Information^{1/} SFS25

-825				
		- <u> </u>	L	Screening ^{2/}
				= Not Screened
				TX = TX Level
	1	1		TXV = TXV Level
		1		S = S Level
	1	L	Packag	ge
	1		/48 =	TO-48
	L	Vol	tage/Fami	ly
		10) = 100 V	30 = 300 V
		20) = 200 V	40 = 400 V
		25	5 = 250 V	

SFS2510 thru SFS2540

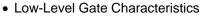
Series

25 AMP

100 - 400 VOLTS **FAST SWITCHING**

SILICON CONTROLLED RECTIFIER

FEATURES:



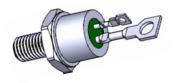
- I_{GT} = 200 µA (Max) @ 25°C
- Low Holding Current I_H = 1 mA (Max) @ 25°C
- Anode Common to Case
- Hermetically Sealed
- TX, TXV, S-Level Screening Available. Consult Factory

	Symbol	Value	Units
SFS2510 SFS2520 SFS2525 SFS2530 SFS2540	V _{drm} V _{rrm}	100 200 250 300 400	Volts
SFS2510 SFS2520 SFS2525 SFS2530 SFS2540	V _{RSM}	150 300 350 400 500	Volts
nduction Angles	T (RMS)	35	Amps
$T_{\rm C} = 50^{\circ}{\rm C}$	I _{T (AV)}	25	Amps
	I _{TSM}	210	Amps
	P _{GM}	60	Watts
	P _{G (AV)}	1.0	Watts
	GM	10	Amps
	V _{GM}	15	Volts
	TJ	-65 to +135	°C
	Tstg	-65 to +150	°C
	R _{θJC}	1.45	°C/W
	SFS2520 SFS2525 SFS2530 SFS2540 SFS2520 SFS2520 SFS2525 SFS2530 SFS2530 SFS2540 nduction Angles	$\begin{array}{c c} SFS2510 \\ SFS2520 \\ SFS2520 \\ SFS2525 \\ SFS2530 \\ SFS2540 \\ \hline \\ \\ SFS2520 \\ SFS2520 \\ SFS2520 \\ SFS2520 \\ SFS2530 \\ SFS2540 \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

NOTES:

- 1/ For ordering information, price, operating curves, and availability- Contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ Unless Otherwise Specified, All Electrical Characteristics @ T_C = 25°C, R_{GK} = 1KΩ



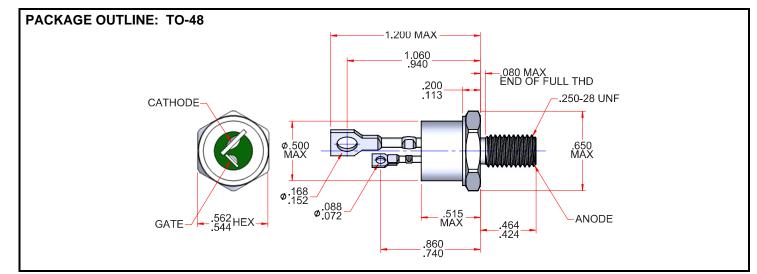
TO-48



SFS2510 thru SFS2540 Series

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ELECTRICAL CHARACT	ERISTICS ^{3/}	Symbol	Min	Max	Unit
Peak Reverse Blocking Cu Rated V _{RRM} , T _C = 25°C	irrent	I _{RRM}		2	mA
Peak Forward Blocking Cu Rated V _{DRM} , T _C = 25°C	irrent	I _{DRM}	_	2	mA
Peak On-State Voltage	I _F = 25 A Peak, t = 1 ms, Duty Cycle ≤ 1% I _F = 100 A Peak, t = 1 ms, Duty Cycle ≤ 1%	V _{TM}		2.05 2.25	Volts
Gate Trigger Current $V_D = 12 V_{DC}, R_L = 33 \Omega$		I _{GT}		180	mA
Gate Trigger Voltage $V_D = 12 V_{DC}, R_L = 33 \Omega$		V _{GT}		1.5	Volts
Holding Current $I_T = 500 \text{ mA}$, Gate Open		Iн		70	mA



Available Part Numbers: SFS2510/48 SFS2520/48 SFS2525/48 SFS2530/48 SFS2540/48

PIN ASSIGNMENT (Standard)					
Package	Cathode	Gate	Anode		
TO-48 (/48)	Terminal 1	Terminal 2	Cathode		

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: SCR006B	DOC
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