

SDA669 Series

DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SDA669 **F** **Lead Bend** ^{3/} **Terminals** ^{2/ 3/} **Speed** **Voltage**

= Straight Leads
 UB = Up Bend
 DB = Down Bend
 = Copper Leads
 T = Turret Terminals
 F = Fast (250 ns typ.)
 J = 600 V
 K = 800 V
 M = 1000V

30A / 600 - 1000V THREE PHASE BRIDGE RECTIFIER ASSEMBLY

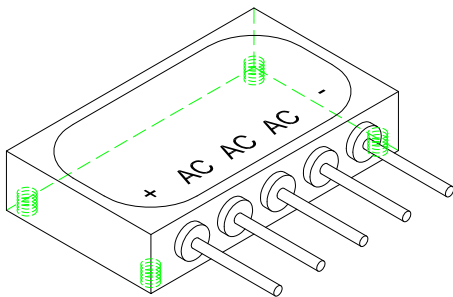
Features:

- Up to 1000 V Blocking Voltage
- Average Output Current 30 Amps
- Low Reverse Leakage Current
- Constructed with Void-free, Hermetically Sealed Discretes
- Aluminum Case for Maximum Thermal Conductivity
- Small Package Size (1.500 x 0.875 x 0.310")
- TX and TXV & S Level Screening Available
- Ultra Fast (70ns) versions available. Contact Factory

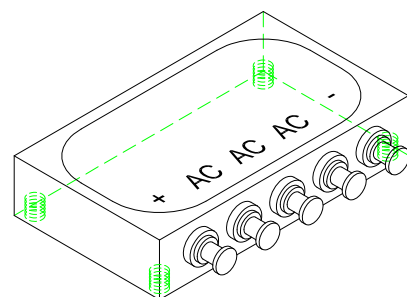
Maximum Ratings

	Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage SDA669J SDA669K SDA669M	V_{RRM} V_{RSM} V_R	600 800 1000	Volts
Average Rectified Forward Current ^{4/} (Resistive Load, 60 hz Sine Wave, $T_C = 55^\circ\text{C}$)	I_o	30	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$, per leg)	I_{FSM}	150	Amps
Operating & Storage Temperature	Top & Tstg	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	1.0	$^\circ\text{C/W}$

SDA669 (_)



SDA669 (T)



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

DATA SHEET #: RA0026C

DOC



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

ssdi@ssdi-power.com * www.ssdi-power.com

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Electrical Characteristic ^{5/}	Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T _A = 25°C, 300 - 500 µsec pulse)	I _F = 3A V _{F1} I _F = 9A V _{F2}	—	—	1.15 1.30	V _{DC}
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300 µsec pulse minimum)	I _{R1}	—	—	5	µA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300 µsec pulse minimum)	I _{R2}	—	—	60	µA
Reverse Recovery Time (T _A = 25°C, I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A)	t _{RR}	—	250	325	nsec

NOTES:

* Pulse Test: Pulse Width = 300µsec, Duty Cycle = 2%

1/ For Ordering Information, Price, and Availability Contact Factory.

2/ For Package Outlines Contact Factory.

3/ Up and Down Bend Configurations are Available for '___' (Leaded) Packages Only.

4/ Derate Linearly at 0.28A/°C for T_C > 55°C.

5/ Unless Otherwise Specified, All Electrical Characteristics @25°C.

Available Part Numbers:

SDA669JF; SDA669JFT

SDA669KF; SDA669KFT

SDA669MF; SDA669MFT

Mounting Diagram: ^{2/}

