SOLID STATE DEVICES, INC.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773

SDA667 Series

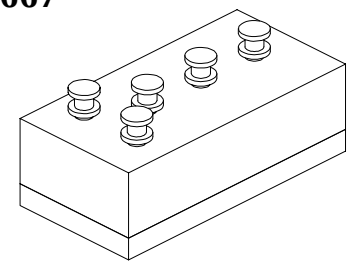
Designer's Data Sheet

40A / 600 - 1000V THREE PHASE BRIDGE RECTIFIER ASSEMBLY FAST RECOVERY 250 NS MAX

FEATURES:

- **Up to 1000 V Blocking Voltage**
- **Average Output Current 40 Amps**
- **Low Reverse Leakage Current**
- **Constructed with Void-free, Hermetically Sealed Discretes**
- **Aluminum Baseplate for Maximum Thermal Conductivity**
- **Electrically Insulated Aluminum Baseplate**
- **TX and TXV & S Level Screening Available**
- **Fast Recovery Time (250ns), Ultrafast (70ns) versions available**

SDA667



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage "J" / "K" / "M"	V_{RRM} / V_{RWM} / V_R	600 / 800 / 1000	**Volts**
Average Rectified Forward Current 1/, 2/ (Resistive load, 60Hz, Sine Wave, T_C = 55ºC)	**Io**	40	**Amps**
Peak Surge Current 1/ (8.3 ms Pulse, Half Sine Wave, T_A = 25ºC)	I_{FSM}	250	**Amps**
Operating and Storage Temperature / **Maximum Junction Temperature**	T_{OP} & Tstg / T_J	-65 TO +150 / 175	**ºC**
Maximum Thermal Resistance 1/ Junction to Case	η_{JC}	0.85	**ºC/W**

Available Part Numbers: 4/

SDA667JF, SDA667KF, SDA667MF

Part Number /Ordering Information

SDA667 M F T- Terminal: T = Turret
L = Lug
Speed: F = Fast
Voltage: J = 600V
K = 800V
M = 1000V

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

DATA SHEET # : RA0022A

SDA667
Series

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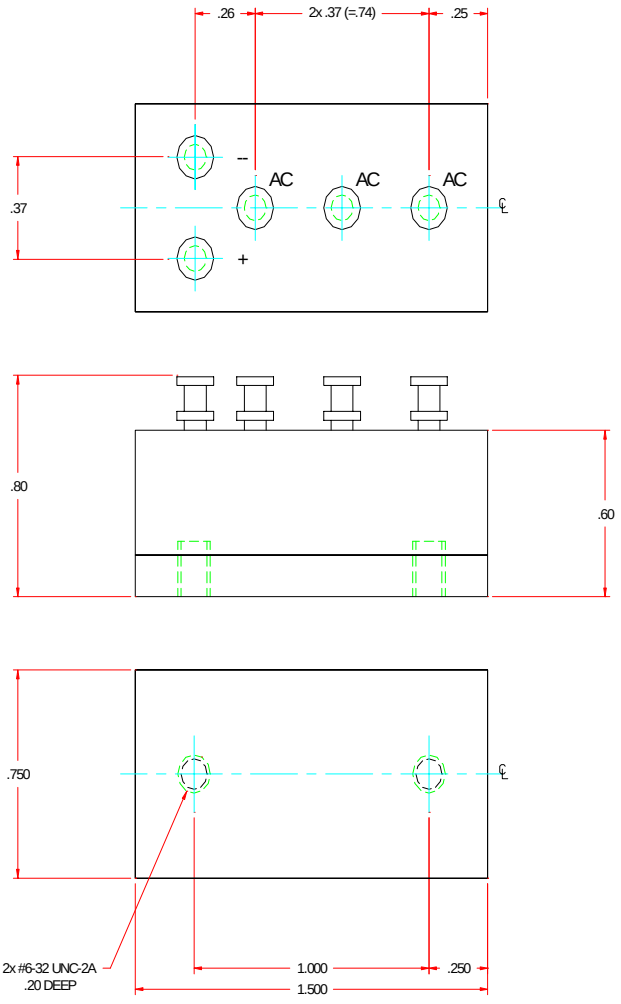
Electrical Characteristics [5/] (per leg)		SYMBOL	MIN	MAX	UNITS
Peak Reverse Voltage (I_R = 100 µA)	SDA667JF SDA667KF SDA667MF	**BVR**	620 820 1020	- - -	**Vdc**
Instantaneous Forward Voltage Drop (300 - 500 µsec pulse)	I_F = 3A I_F = 9A	**V_{F1}** **V_{F2}**	- -	1.15 1.30	**Vdc**
Reverse Leakage Current (Rated V_R, 300 µs pulse minimum)		**I_{R1}**	-	5	**µA**
Reverse Leakage Current (Rated V_R, T_A = 100°C, 300 µs pulse minimum)		**I_{R2}**	-	60	**µA**
Reverse Recovery Time (I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A)		**t_{RR}**	-	250	**nsec**
Isolation Resistance (All Terminals in Common to Case) (V = 1500V)		**R_{ISO}**	100	-	**MΩ**

NOTES:

1/ Rating Applies to the Total Bridge

2/ Derate Linerly at 0.35A/°C for T_C > 55°C.

3/ Other Termination available. Contact Factory

4/ For Package Outline and Part Availability, Contact Factory.

5/ All Electrical Characteristics @25°C, unless otherwises specified.