Solid State Devices, Inc. 14701 Firestone Blvd * La Mirada, CA 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com	SDA280D THRU SDA280G
DESIGNER'S DATA SHEET Part Number/Ordering Information ^{1/} SDA280 Screening ^{2/} = Not Screened TX = TX Level	15 AMPS / 400 – 1000 VOLTS FAST RECOVERY CENTERTAP RECTIFIER
TXV = TXV $S = S Level$ $Configuration$ $C = Common Cathode$ $A = Common Anode$ $D = Doubler$ $Voltage$ $D = 400V$ $E = 600V$ $F = 800V$ $G = 1000V$	 Features: Average Output Current: 15 Amps PIV: 400 to 1000V Max Thermal Resistance 5.0 °C/Watt Fast Recovery: 150 / 180 nsec Glass Passivated Rectifiers Hermetically Sealed Discretes Aluminum Case for Maximum Thermal Conductivity Common Cathode, Common Anode, and Doubler Versions Available. Contact Factory for Part Number. Parts with Blade and Hook Terminals Available. Contact Factory for Part Number. TX, TXV, and Space Level Screening Available

Maximum Ratings		Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage	SDA280D SDA280E SDA280F SDA280G	V _{RRM} V _{RSM} V _R	400 600 800 1000	Volts
Average Rectified Forward Current ^{4/} (Resistive Load, 60 hz Sine Wave, No Heatsink)	T _A = 55°C T _A = 100°C	lo	15 10	Amps
Peak Surge Current $\frac{3}{}$ (8.3 ms Pulse, Half Sine Wave, T _A = 25°C, per leg)		I _{FSM}	150	Amps
Operating & Storage Temperature		T _{op} & T _{stg}	-55 to +150	°C
Maximum Thermal Resistance Junction to Case		R _{θJC}	5.0	°C/W
<u>1</u> / For Ordering Information, Price, Operating Curves, and Factory.	Availability- Contact	SDA280	9	

 $\underline{3/}$ Both legs tied together $\underline{4/}$ Per leg

2/ Screening based on MIL-PRF-19500. Screening flows available on request.

DATA SHEET #: RA0050C

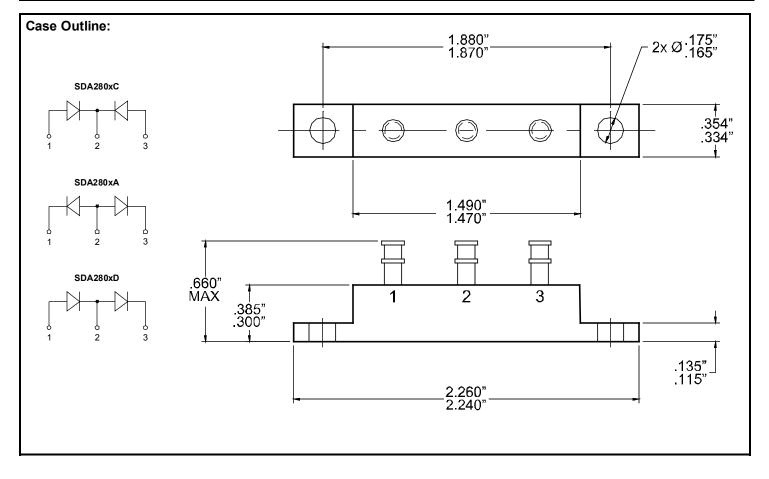
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SDA280D thru SDA280G

Electrical Characteristics	Symbol	Value	Units
Instantaneous Forward Voltage Drop ($I_F = 5A, T_A = 25^{\circ}C, 300 - 500 \mu sec pulse$)	V_{F1}	1.4	V _{DC}
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300 μsec pulse minimum)	I _{R1}	5	μA
Reverse Recovery Time SDA280D $(T_A = 25^{\circ}C, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A)$ SDA280E - SDA280G	t _{RR}	150 180	nsec



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RA0050C	DOC
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