



Solid State Devices, Inc.

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SDA380A THRU SDA380G

DESIGNER'S DATA SHEET

Part Number/Ordering Information ^{1/}

SDA380

Screening ^{2/}

— = Not Screened

TX = TX Level

TXV = TXV

S = S Level

Configuration

C = Common Cathode

A = Common Anode

D = Doubler

Voltage

A = 50V

B = 100V

C = 200V

D = 400V

E = 600V

F = 800V

G = 1000V

10 AMPS, 5μsec STANDARD RECOVERY CENTERTAP RECTIFIER

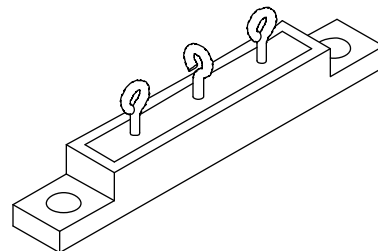
Features:

- Unheatsunk Average Output Current: 10 Amps
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Discretes
- Aluminum Case for Maximum Thermal Conductivity
- Common Cathode, Common Anode and Doubler Versions Available
- Fast and Ultra Fast Recovery Versions Available – Contact Factory
- TX and TXV Level screening Available

Maximum Ratings

	Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage	SDA380A	50	Volts
	SDA380B	100	
	SDA380C	200	
	SDA380D	400	
	SDA380E	600	
	SDA380F	800	
	SDA380G	1000	
Average Rectified Forward Current ^{4/} (Resistive Load, 60 hz Sine Wave, T _A = 25°C, No Heatsink)	I _o	10	Amps
Peak Surge Current ^{3/} (8.3 ms Pulse, Half Sine Wave, T _A = 25°C, per leg)	I _{FSM}	125	Amps
Operating & Storage Temperature	Top & Tstg	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	5.0	°C/W

SDA380



^{1/} For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.

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

^{3/} Both legs tied together

^{4/} Per leg

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

DATA SHEET #: RA0023C

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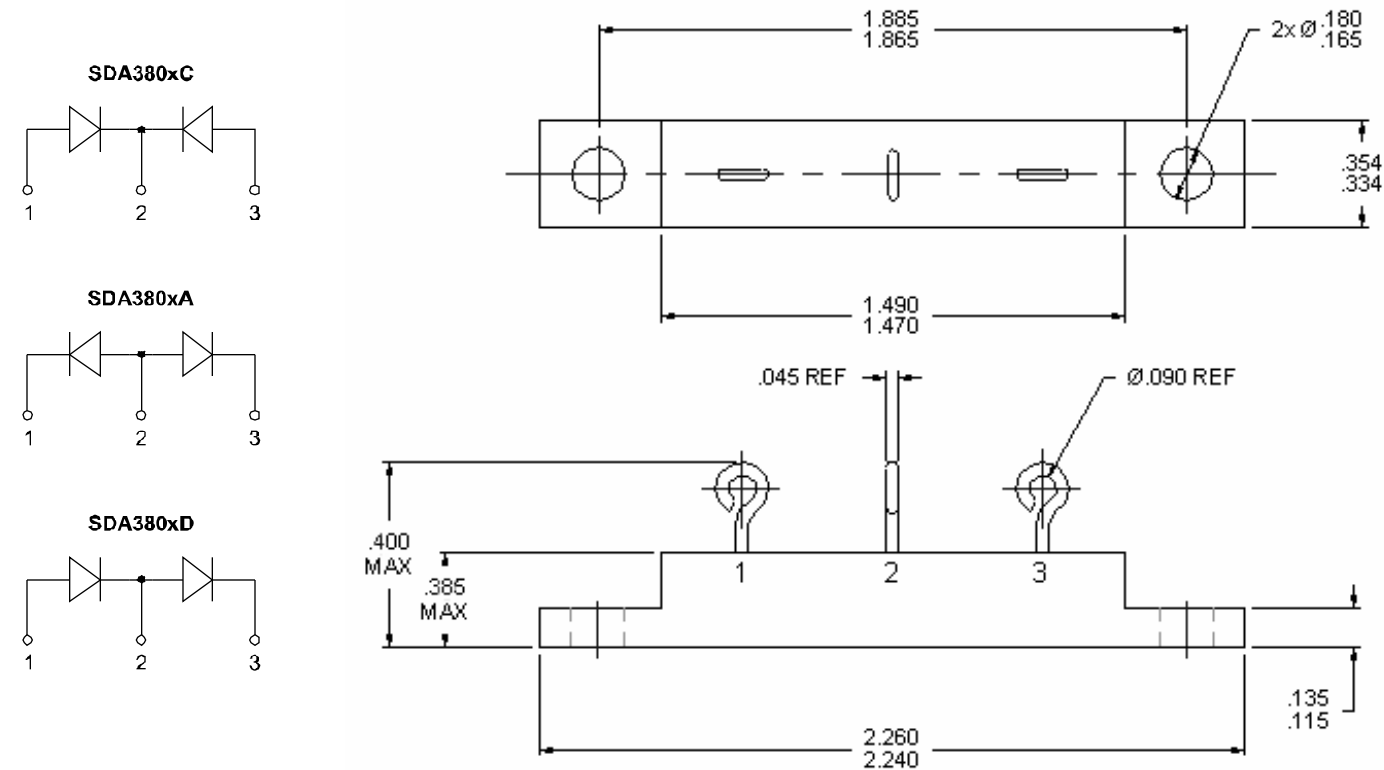
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SDA380A thru SDA380G

Electrical Characteristics	Symbol	Value	Units
Instantaneous Forward Voltage Drop ($I_F = 5A$, $T_A = 25^\circ C$, 300 - 500 μsec pulse)	V_{F1}	1.1	V_{DC}
Instantaneous Forward Voltage Drop ^{5/} ($I_F = 5A$, $T_A = -55^\circ C$, 300 - 500 μsec pulse)	V_{F2}	1.35	V_{DC}
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ C$, 300 μsec pulse minimum)	I_{R1}	5	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ C$, 300 μsec pulse minimum)	I_{R2}	0.5	mA
Reverse Recovery Time ($T_A = 25^\circ C$, $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	T_{RR}	5	μsec

5/ Guaranteed / not tested

Case Outline:



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