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

SSR4010N
SSR4010P

40 AMP
100 VOLTS
SCHOTTKY RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information [1/]

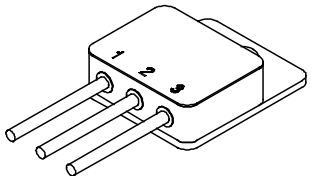
SSR4010 ___ ___ ___

Screening [2/] __ = Not Screened, TX = TX Level, TXV = TXV, S = S Level

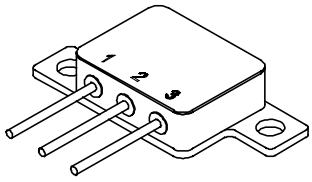
Lead Options __ = Straight Leads, D = Bent Down, U = Bent Up

Package
N = TO-258, P = TO-259 (.060" Dia. Leads)
NA = TO-258, PA = TO-259 (.040" Dia. Leads)

TO-258



TO-259



FEATURES:

- **PIV 100 Volts**
- **Low Forward Voltage Drop**
- **Low Reverse Leakage Current**
- **Isolated Hermetically Sealed Power Package**
- **Available with Ceramic Seals**
- **Custom Lead Forming Available**
- **Guard Ring for Overvoltage Protection**
- **Eutectic Die Attach**
- **175°C Operating Junction Temperature**
- **TX, TXV, or Space Level Screening Available**

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage **SSR4010N, SSR4010P**	V_{RRM} V_{RWM} V_R	100	Volts
Average Rectified Output Current [3/] (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	40	Amps
Peak Surge Current [3/] (8.3 ms Pulse, Half Sine Wave, superimposed on I_O, allow junction to reach equilibrium between pulses, TA=25°C)	I_{FSM}	400	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance [3/] Junction to Case	$R_{\theta JC}$	0.6	°C/W

NOTES: 1/ For ordering information, price, and availability- Contact Factory.
2/ Screened to MIL-PRF-19500.
3/ Pins 2 and 3 connected together.

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SSR4010N
SSR4010P

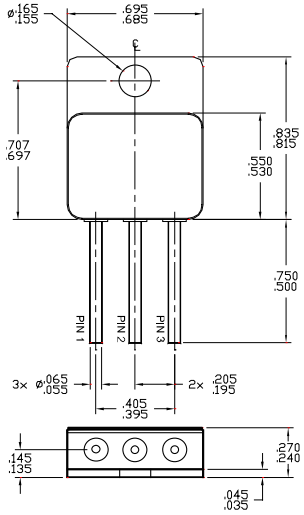
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 10 A, T_A = 25°C, Pulse) (I_F = 20 A, T_A = 25°C, Pulse) (I_F = 40 A, T_A = 25°C, Pulse)	V_{F1} V_{F2} V_{F3}	0.7 0.77 0.90	Vdc
Instantaneous Forward Voltage Drop (I_F = 20 A, T_A = -55°C, Pulse)	V_{F4}	0.89	Vdc
Reverse Leakage Current (Rated V_R, T_A = 25°C, Pulse)	I_{R1}	400	µA
Reverse Leakage Current (Rated V_R, T_A = 100°C, Pulse)	I_{R2}	20	mA
Junction Capacitance (V_R = 10 V, T_A = 25°C, f = 1 MHz)	C_J	1,600	pF

Case Outlines-

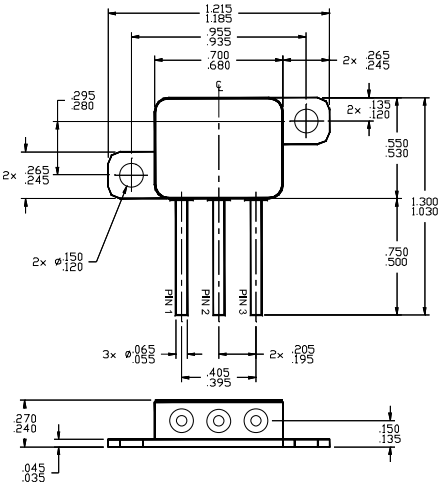
TO-258 (N Suffix)

PIN OUT:
PIN 1- CATHODE
PIN 2- ANODE
PIN 3- ANODE

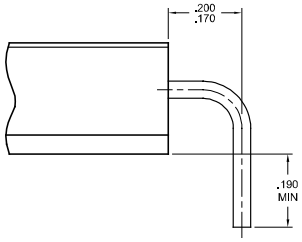


TO-259 (P Suffix)

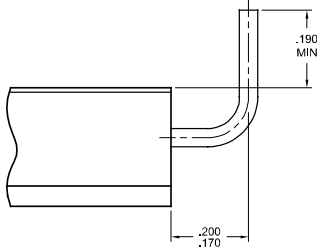
PIN OUT:
PIN 1- CATHODE
PIN 2- ANODE
PIN 3- ANODE



Optional Bent Down Leads
(ND & PD Suffix)



Optional with Bent Up Leads
(NU & PU Suffix)



For information on curves, contact the Factory Representative for Engineering Assistance.