



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

SSR2010CT/3

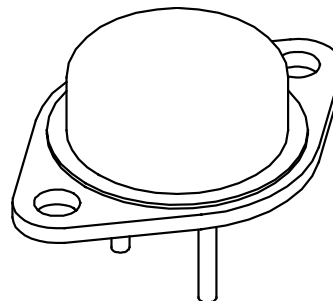
Designer's Data Sheet

FEATURES:

- PIV: 100 Volts
- Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Package
- Guard Ring for Overvoltage Protection
- Available in Isolated and Non-isolated versions
- Eutectic Die Attach
- 175°C Operating Temperature
- Also Available in the following Configurations:
 - Common Anode: SSR2010CA/3
 - Doubler: SSR1010D/3
- TX, TXV, and Space Level Screening Available

**20 AMPS
100 VOLTS
POSITIVE CENTERTAP
SCHOTTKY
RECTIFIER**

TO-3



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR2010CT/3	V_{RRM} V_{RWM} V_R	100	Volts
Average Rectified Forward Current ^{1/} (Resistive Load, 60 Hz, Sine Wave, $T_A=25^\circ\text{C}$)		I_O	20	Amps
Peak Surge Current ^{1/} (8.3 ms Pulse, Half Sine Wave Superimposed on I_O , allow junction to reach equilibrium between pulses, $T_A=25^\circ\text{C}$)		I_{FSM}	300	Amps
Operating and Storage Temperature		$T_{OP} \ \& \ T_{stg}$	-65 to +175	°C
Maximum Thermal Resistance ^{1/} Junction to Case		$R_{\theta JC}$	1.2	°C/W

Notes: ^{1/} Both Legs Tied Together.

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

DATA SHEET #: RS0071C

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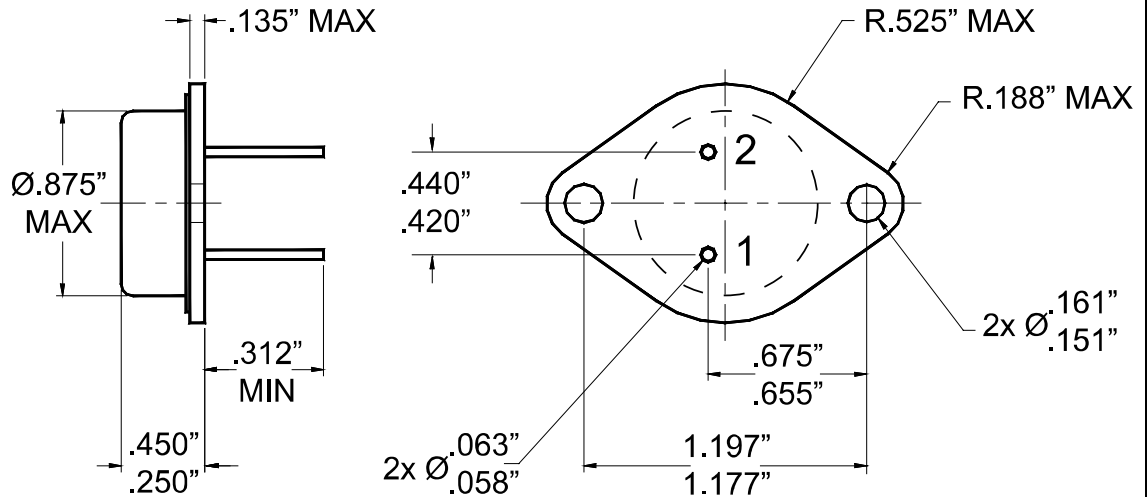
ELECTRICAL CHARACTERISTICS (Per Leg)		Symbol	Max	Unit
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, Pulse)	$I_F = 3\text{ Amps}$	V_{F1}	0.7	Volts
	$I_F = 5\text{ Amps}$	V_{F2}	0.72	
	$I_F = 10\text{ Amps}$	V_{F3}	0.80	
Instantaneous Forward Voltage Drop ($I_F = 5\text{ Amps}$, $T_A = -55^\circ\text{C}$, Pulse)		V_{F4}	0.85	Volts
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, Pulse)		I_{R1}	100	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, Pulse)		I_{R2}	5	mA
Junction Capacitance ($V_R = 10\text{ V}_{DC}$, $T_A = 25^\circ\text{C}$, $f = 1\text{ MHz}$)		C_J	400	pF

CASE OUTLINE: TO-3

PIN OUT: SSR2010CT/3
(Common Cathode)
CASE: CATHODE
PIN 1: ANODE 1
PIN 2: ANODE 2

PIN OUT: SSR2010CA/3
(Common Anode)
CASE: ANODE
PIN 1: CATHODE 1
PIN 2: CATHODE 2

PIN OUT: SSR1010D/3
(Doubler)
CASE: AC
PIN 1: ANODE
PIN 2: CATHODE



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