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

SSR7010 series

35 AMP
SCHOTTKY RECTIFIER
CENTERTAP
100 VOLTS

Designer's Data Sheet

Part Number / Ordering Information[1/]

SSR 70 10 __ __ __

- **Screening**[2/] __ = Not Screened, TX = TX Level, TXV = TXV Level, S = S Level
- **Package** M = TO-254, Z = TO-254Z
- **Configuration** CT = Common Cathode, CA = Common Anode
- **Voltage** 10 = 100 V
- **Current** 70 = 35 A

FEATURES:

- Extremely low forward voltage drop
- Low reverse leakage
- Hermetically sealed custom surface mount package
- Guard ring for overvoltage protection
- Eutectic die attach
- 175ºC operating junction temperature
- Available with glass or ceramic seals – consult factory for details
- TX, TXV, and S level screening available - consult factory

MAXIMUM RATINGS[3/]	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	**Volts**
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, T_A = 25ºC)[4/]	I_O	35	**Amps**
Peak Surge Current (8.3 ms pulse, half sine wave, T_A = 25ºC)[4/]	I_{FSM}	350	**Amps**
Operating & Storage Temperature	T_{OP} & T_{stg}	-55 to +175	**ºC**
Maximum Thermal Resistance (Junction to Case)[4/]	$R_{\theta JC}$	1.25	**ºC/W**

NOTES:

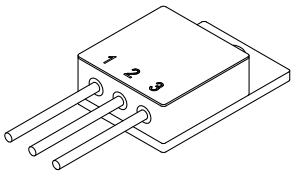
1/ For ordering information, price, and availability - contact factory.

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

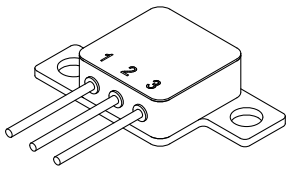
3/ Unless otherwise specified, all electrical characteristics @25ºC.

4/ Per Leg

TO-254 (M)



TO-254Z (Z)

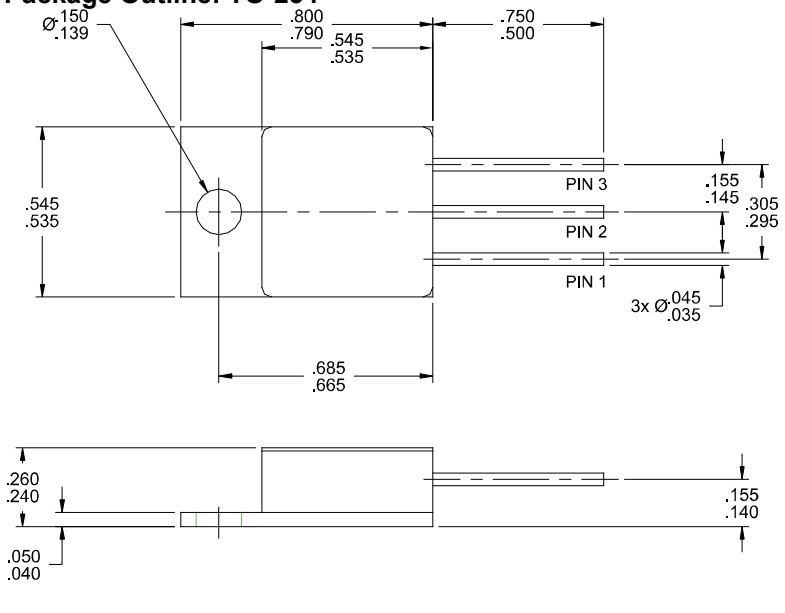


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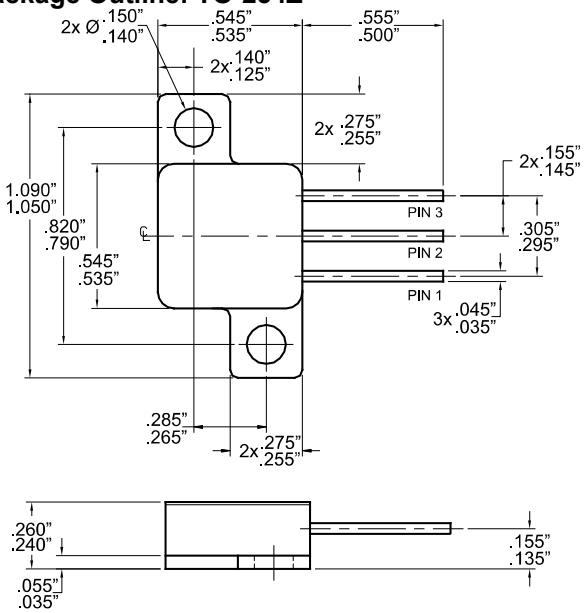
SSR7010 series

ELECTRICAL CHARACTERISTICS (per leg)[3/]		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T_A=25ºC, 300µsec pulse)	I_F = 15 A I_F = 30 A I_F = 40 A	V_{F1} V_{F2} V_{F3}	- -	0.72 0.86 1.02	0.79 1.01 1.11	V_{DC}
Instantaneous Forward Voltage Drop (T_A= 125ºC, 300µsec pulse)	I_F = 15 A I_F = 30 A I_F = 40 A	V_{F4} V_{F5} V_{F6}	- -	0.58 0.72 0.80	0.71 0.92 0.99	V_{DC}
Instantaneous Forward Voltage Drop (T_A= -55ºC, 300µsec pulse)	I_F = 15 A I_F = 30 A I_F = 40 A	V_{F7} V_{F8} V_{F9}	- -	0.70 0.85 0.95	0.80 0.98 1.06	V_{DC}
Reverse Leakage Current (Rated V_R, T_A = 25ºC, 300µsec pulse minimum)		I_{R1}	-	10	70	uA
Reverse Leakage Current (Rated V_R, T_A = 100ºC, 300µsec pulse minimum)		I_{R2}	-	2.5	-	mA
Reverse Leakage Current (Rated V_R, T_A = 125ºC, 300µsec pulse minimum)		I_{R3}	-	10	40	mA
Reverse Leakage Current (Rated V_R, T_A = 150ºC, 300µsec pulse minimum)		I_{R4}	-	30	-	mA
Junction Capacitance (V_R = 5V, f = 1MHz, T_A = 25ºC)		C_J		750	1000	pF

Package Outline: TO-254



Package Outline: TO-254Z



PIN ASSIGNMENT			
Configuration	**Pin 1**	**Pin 2**	**Pin 3**
Common Cathode	**Anode 1**	**Cathode**	**Anode 2**
Common Anode	**Cathode 1**	**Anode**	**Cathode 2**

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: SH0063A**	**DOC**