



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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Designer's Data Sheet

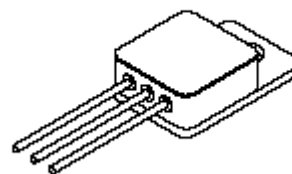
FEATURES:

- Isolated Low Profile Package
- Guard Ring for Overvoltage Protection
- -65 °C to 175°C Operating and Storage Temperature
- Reverse Voltage to 45 Volts
- Low Reverse Leakage
- Hermetically Sealed
- Very Low Forward Voltage Drop
- Available in Common Anode (CAJ) and Doubler (DJ) Configuration
- Higher Voltages Available. Consult Factory.
- TX, TX-V, and S-Level Screening Available. Consult Factory.

SSR2045CTJ

**20 AMPS
45 VOLTS
ISOLATED FLAT PACK
POSITIVE CENTER TAP
SCHOTTKY**

TO-257(J)



MAXIMUM RATINGS	Symbol	Value	Units
Peak Repetitive Reverse Voltage (Per Leg) and DC Blocking Voltage (Per Leg)	V_{RRM} V_R	45	Volts
RMS Reverse Voltage (Per Leg)	V_r	32	Volts
Half Wave Rectified Forward Current, Averaged Over Full Cycle (Resistive Load, 60 Hz, Sine Wave, $T_C=25^\circ\text{C}$)	I_O	20	Amps
Peak Repetitive Forward Current ($T_C=55^\circ\text{C}$, 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	I_{FRM}	40	Amps
Peak Surge Current ($T_C=55^\circ\text{C}$, 8.3 ms Pulse, Superimposed on Rated Current at Rated Voltage)	I_{FSM}	200	Amps
Operating and Storage Temperature	T_J & T_{stg}	-65 to +175	$^\circ\text{C}$

THERMAL CHARACTERISTICS	Symbol	Value	Units
Thermal Resistance, Junction to Case (Both legs tied together)	$R_{\theta JC}$	2.0	$^\circ\text{C/W}$

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

DATA SHEET #: SH0044A

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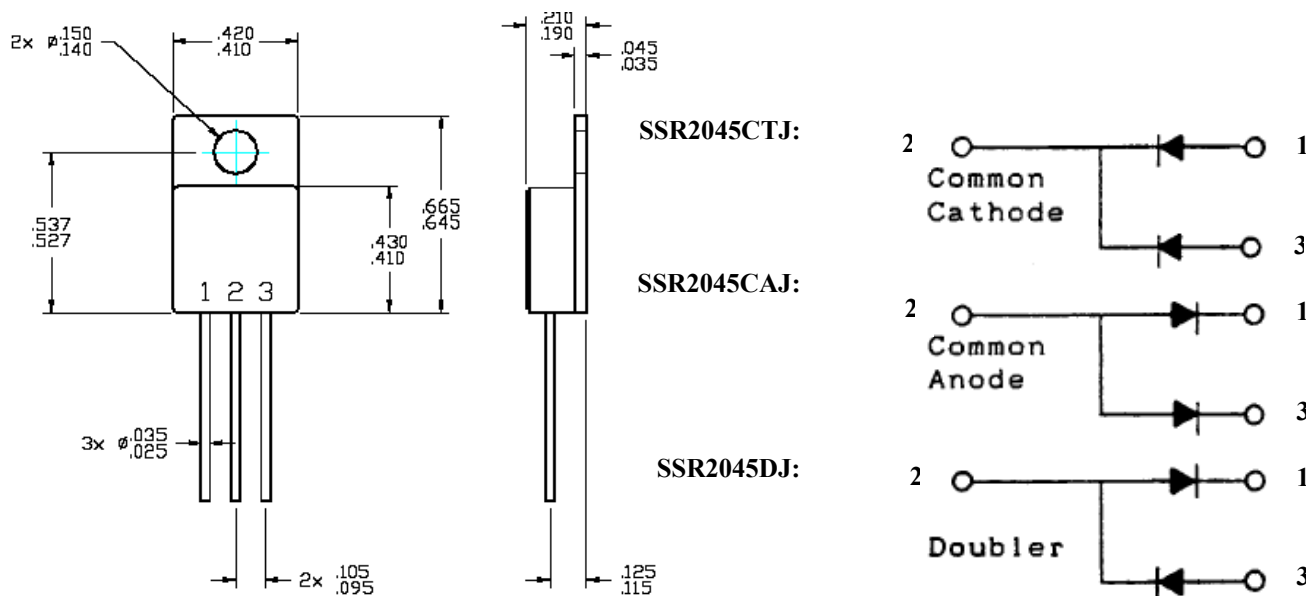
ELECTRICAL CHARACTERISTICS		Symbol	Value	Unit
Max Instantaneous Forward Voltage Drop, per leg * ($T_A = 25^\circ\text{C}$)	$I_F = 3 \text{ Amps}$	V_F	0.50	Volts
	$I_F = 5 \text{ Amps}$		0.55	
	$I_F = 10 \text{ Amps}$		0.65	
Max Instantaneous Forward Voltage Drop, per leg * ($I_F = 5 \text{ Amps}$, $T_A = 100^\circ\text{C}$)		V_F	0.5	Volts
Max Reverse Leakage Current per leg * ($V_R = 45 \text{ V}$, $T_A = 100^\circ\text{C}$)		I_R	10	mA
Max Reverse Leakage Current, per leg * ($V_R = 45 \text{ V}$, $T_A = 25^\circ\text{C}$)		I_R	200	μA
Max Junction Capacitance, per leg ($V_R = 10 \text{ V}_{\text{DC}}$, $T_A = 25^\circ\text{C}$)		C_J	400	pF

NOTES:

* Pulse Test: Pulse Width = 300 μsec , Duty Cycle = 2%

1. Unless Otherwise Specified, All Electrical Characteristics @25°C

PACKAGE OUTLINE: TO-257 (J)



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

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