

MAXIMUM RATINGS	Symbol	Value
Peak Repetitive Reverse Voltage (Per Leg) and DC Blocking Voltage (Per Leg)	V _{RRM} V _R	45
RMS Reverse Voltage (Per Leg)	Vr	32

everse Leakage		
tically Sealed		
ow Forward Voltage Drop		

Guard Ring for Overvoltage Protection • -65 °C to 175°C Operating and Storage

Isolated Low Profile Package

- Temperature
- **Reverse Voltage to 45 Volts** •
- Low Re •

Solid State Devices, Inc. 14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-7855 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

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FEATURES:

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• Very L

(Resistive Load, 60 Hz, Sine Wave, $T_C=25^{\circ}C$)

Peak Repetitive Forward Current

Operating and Storage Temperature

THERMAL CHARACTERISTICS

Thermal Resistance, Junction to Case

Peak Surge Current

Available in Common Anode (CAJ) and Doubler • **(DJ)** Configuration

Half Wave Rectified Forward Current, Averaged Over Full Cycle

 $(T_c=55^{\circ}C, 8.3 \text{ ms Pulse}, \text{Allow Junction to Reach Equilibrium Between Pulses})$

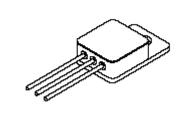
 $(T_c=55^{\circ}C, 8.3 \text{ ms Pulse}, \text{Superimposed on Rated Current at Rated Voltage})$

Designer's Data Sheet

- Higher Voltages Available. Consult Factory. •
- TX, TX-V, and S-Level Screening Available. **Consult Factory.**

20 AMPS 45 VOLTS ISOLATED FLAT PACK POSITIVE CENTER TAP SCHOTTKY

TO-257(J)



Io

I_{FRM}

 $I_{FSM} \\$

T_J & Tstg

Symbol

Units

Volts

Volts

Amps

Amps

Amps

°C

Units

20

40

200

-65 to +175

Value

(Both legs tied together)	$\mathbf{R}_{\mathbf{ hetaJC}}$	2.0	°C/W

OTE: All specifications are subject to change without notification. ICD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: SH0044A	DOC
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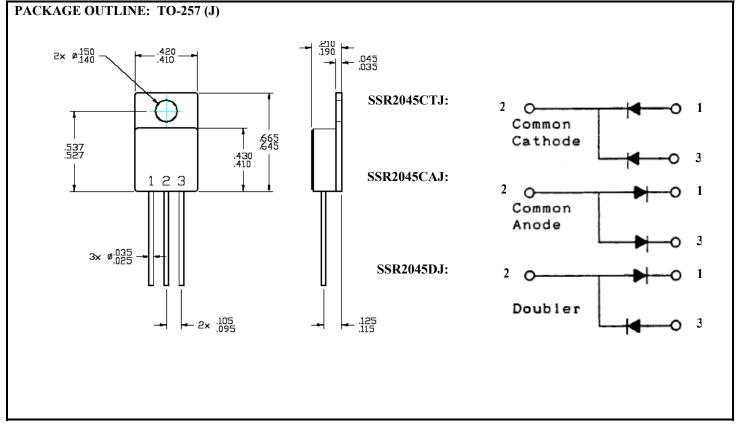
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ELECTRICAL CHARACTERISTICS		Symbol	Value	Unit
Max Instantaneous Forward Voltage Drop, per leg * (T _A = 25°C)	$I_F = 3 \text{ Amps}$ $I_F = 5 \text{ Amps}$ $I_F = 10 \text{ Amps}$	$\mathbf{V}_{\mathbf{F}}$	0.50 0.55 0.65	Volts
Max Instantaneous Forward Voltage Drop, per leg * (I _F = 5 Amps, T _A = 100°C)		$\mathbf{V}_{\mathbf{F}}$	0.5	Volts
Max Reverse Leakage Current per leg * (V _R = 45 V, T _A = 100°C)		I _R	10	mA
Max Reverse Leakage Current, per leg * (V _R = 45 V, T _A = 25°C)		I _R	200	μA
Max Junction Capacitance, per leg ($V_R = 10 V_{DC}, T_A = 25^{\circ}C$)		CJ	400	pF

NOTES:

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

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



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

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