

MAXIMUM RATINGS	Symbol	Value
Peak Repetitive Reverse Voltage (Per Leg) and DC Blocking Voltage (Per Leg)	V <sub>RRM</sub> V <sub>R</sub>	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

Hermet •

**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

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

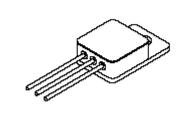
 $(T_c=55^{\circ}C, 8.3 \text{ ms Pulse}, \text{Superimposed on Rated Current at Rated Voltage})$ 

**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<sub>FRM</sub>

 $I_{FSM} \\$ 

T<sub>J</sub> & 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

<b>OTE:</b> 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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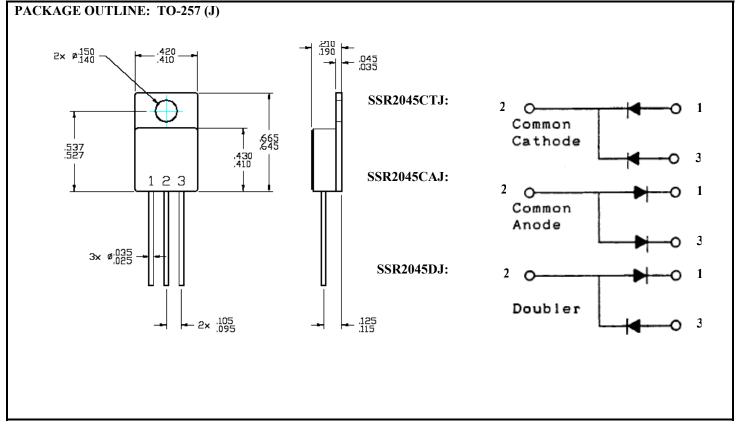
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ELECTRICAL CHARACTERISTICS		Symbol	Value	Unit
<b>Max Instantaneous Forward Voltage Drop, per leg *</b> (T <sub>A</sub> = 25°C)	$I_F = 3 \text{ Amps}$ $I_F = 5 \text{ Amps}$ $I_F = 10 \text{ Amps}$	$\mathbf{V}_{\mathbf{F}}$	0.50 0.55 0.65	Volts
<b>Max Instantaneous Forward Voltage Drop, per leg *</b> (I <sub>F</sub> = 5 Amps, T <sub>A</sub> = 100°C)		$\mathbf{V}_{\mathbf{F}}$	0.5	Volts
<b>Max Reverse Leakage Current per leg *</b> (V <sub>R</sub> = 45 V, T <sub>A</sub> = 100°C)		I <sub>R</sub>	10	mA
<b>Max Reverse Leakage Current, per leg *</b> (V <sub>R</sub> = 45 V, T <sub>A</sub> = 25°C)		I <sub>R</sub>	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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