

# SEMITRONICS CORP.

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## SPS3045

30 Amp 45 Volt  
Power Schottky  
Center-Tap

### FEATURES

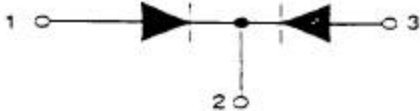
- Isolated Case
- Hermetically Sealed Package
- Very Low Forward Voltage
- Low Reverse Leakage
- Eutectic Die Attachment for Hi Reliability
- MIL STX Screening Available
- Custom Lead Forming Available
- Ceramic Feedthroughs Available

### APPLICATIONS

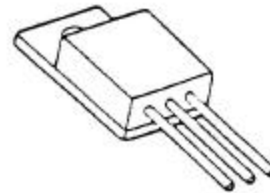
- High Reliability Power Supplies
- Switching Power Supplies
- Battery Back-Up Supplies
- High Current Switching

### DESCRIPTION

The SPS3045 is a 30 Amp, 45 volts Dual Power Schottky Rectifier in Center Tap Construction, packaged in three lead hermetically sealed TO-257 metallic package in Common Cathode Configuration. Add suffix -A- to part number for Common Anode Configuration.

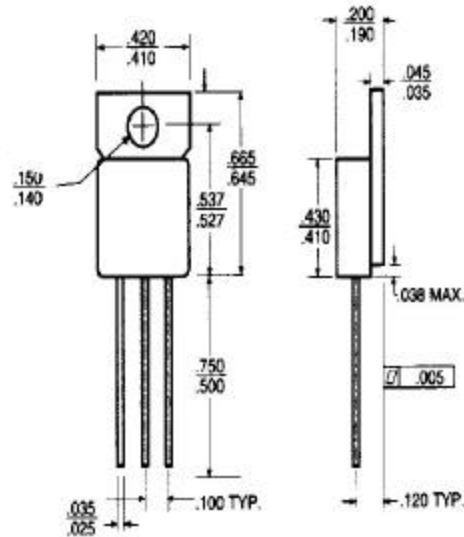


### PACKAGE



TO-257

### CASE OUTLINE



### ABSOLUTE MAXIMUM RATINGS (Per Diode) @ 25° C

Peak Inverse Voltage	.....	45 Volts
Maximum Average D.C. Output Current	.....	15 Amps
Non-Repetitive Surge Current 8.3 ms	.....	150 Amps
Junction Temperature Range	.....	- 55° C to + 150° C
Storage Temperature Range	.....	- 55° C to + 175° C
Maximum Thermal Resistance, Junction to Case	.....	1.2° C/W

**ELECTRICAL CHARACTERISTICS (Per Diode)**

Maximum Forward Voltage	@ $T_j = 25^\circ \text{C}$	.....	0.75 Volts
Maximum Reverse Current	@ $45 \text{ V} + T_j = 25^\circ \text{C}$	.....	500 $\mu\text{A}$
	@ $45 \text{ V} + T_j = 125^\circ \text{C}$	.....	30 mA
Maximum Junction Capacitance	@ $V_R = 5 \text{ V}$ $f = 1 \text{ MHz}$	.....	1000 pF