

SEMITRONICS CORP.

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SPS3045

30 Amp 45 Volt
Power Schottky
Center-Tap

FEATURES

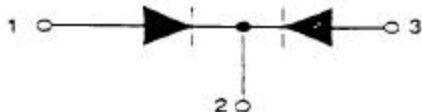
- Isolated Case
- Hermetically Sealed Package
- Very Low Forward Voltage
- Low Reverse Leakage
- Eutectic Die Attachment for Hi Reliability
- MIL STX Screening Available
- Custom Lead Forming Available
- Ceramic Feedthroughs Available

APPLICATIONS

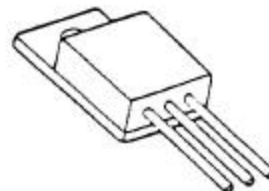
- High Reliability Power Supplies
- Switching Power Supplies
- Battery Back-Up Supplies
- High Current Switching

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.

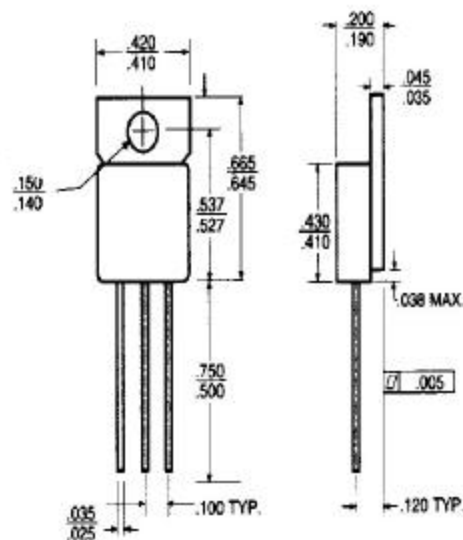


PACKAGE



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	@ Tj = 25° C	0.75 Volts
Maximum Reverse Current	@ 45 V + Tj = 25° C	500 µA
	@ 45 V + Tj = 125° C	30 mA
Maximum Junction Capacitance	@ VR = 5 V f = 1 MHZ	1000 pF