PRELIMINARY

SSR8045CTN

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

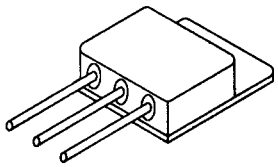
Designer's Data Sheet

80 AMP 45 VOLTS POSTIVE CENTERTAP SCHOTTKY RECTIFIER

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overvoltage protection
- Isolated Hermetically Sealed Power Package
- Available with Ceramic Seals
- Custom Lead Forming Available
- Eutectic Die Attach
- 175°C Operating Temperature
- Also available in the following configurations:
  - Common Anode: SSR8045CAN
  - Doubler: SSR8045DN
- TX, TXV, and Space Level Screening Available

TO-258



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	45	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) *note 1*	I_O	80	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses,TA=25°C) *note 1*	I_{FSM}	1200	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case, *note 1*	$R_{\theta JC}$	0.5	°C/W

NOTE 1: Both legs tied together

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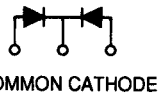
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ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 10 Adc, T_A=25°C, 300µs Pulse) (I_F = 20 Adc, T_A=25°C, 300µs Pulse) (I_F = 40 Adc, T_A=25°C, 300µs Pulse)	V_{F1}	0.50 0.60 0.75	Vdc
Instantaneous Forward Voltage Drop (I_F = 20 Adc, T_A= - 55°C, 300µs Pulse)	V_{F2}	0.67	Vdc
Reverse Leakage Current (Rated VR, T_A=25°C, 300µs pulse minimum)	I_{R1}	400	µA
Reverse Leakage Current (Rated VR, T_A=100°C, 300µs pulse minimum)	I_{R2}	30	mA
Junction Capacitance (V_R = 10 Vdc, T_A=25°C, f= 1 MHz)	CJ	1600	pf

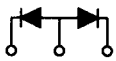
CASE OUTLINE: TO-258

SSR8045CTN:
PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2



COMMON CATHODE

SSR8045CAN
PIN 1: CATHODE 1
PIN 2: ANODE
PIN 3: CATHODE 2



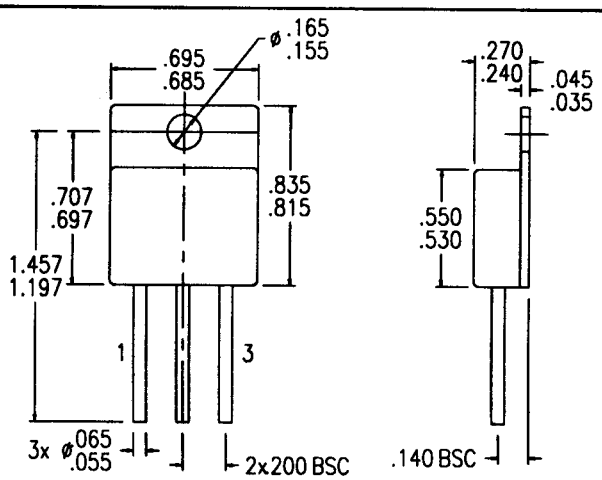
COMMON ANODE

SSR8045DN: *(note 2)*
PIN 1: CATHODE
PIN 2: AC
PIN 3: ANODE



DOULBER

NOTE 2: Consult the factory for Doubler specification



TYPICAL OPERATING CURVES

(TA=25°C unless otherwise specfied)

