

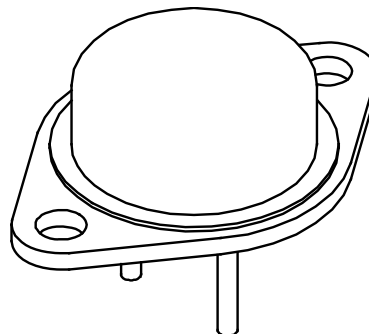
**Solid State Devices, Inc.**

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR4045CT/3**Designer's Data Sheet****FEATURES:**

- PIV: 45 Volts
- Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Package
- Guard Ring for Overvoltage Protection
- Gold Eutectic Die Attach
- 175°C Operating Junction Temperature
- Also Available in the following Configurations:
 - Common Anode- SSR4045CA/3
 - Doubler- SSR4045D/3
- TX, TXV, and Space Level Screening Available

**40 AMPS
45 VOLTS
POSITIVE CENTERTAP
SCHOTTKY
RECTIFIER**

TO-3

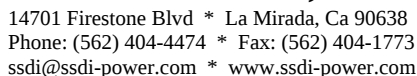
MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR4045CT/3	V_{RRM} V_{RWM} V_R	45	Volts
Average Rectified Forward Current ^{1/} (Resistive Load, 60 Hz, Sine Wave, $T_A=25^\circ\text{C}$)		I_O	40	Amps
Peak Surge Current ^{1/} (8.3 ms Pulse, Half Sine Wave Superimposed on I_O , allow junction to reach equilibrium between pulses, $T_A=25^\circ\text{C}$)		I_{FSM}	600	Amps
Operating and Storage Temperature		T_{OP} & T_{stg}	-65 to +175	°C
Maximum Thermal Resistance ^{1/} Junction to Case		$R_{\theta JC}$	0.9	°C/W

Notes:

^{1/} Both Legs Tied Together. (Doubler Per Leg: $I_O = 20\text{A}$, $I_{FSM} = 300\text{A}$, $R_{\theta JC} = 1.8^\circ\text{C/W}$)

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RS0025B**DOC**



ELECTRICAL CHARACTERISTICS (Per Leg)		Symbol	Max	Unit
Instantaneous Forward Voltage Drop (T _A = 25°C, Pulse)	I _F = 5Amps	V _{F1}	0.50	Volts
	I _F = 10 Amps	V _{F2}	0.56	
	I _F = 20 Amps	V _{F3}	0.69	
Instantaneous Forward Voltage Drop (I _F = 10 Amps, T _A = -55°C, Pulse)		V _{F4}	0.63	Volts
Reverse Leakage Current (Rated V _R , T _A = 25°C, Pulse)		I _{R1}	200	µA
Reverse Leakage Current (Rated V _R , T _A = 100°C, Pulse)		I _{R2}	15	mA
Junction Capacitance (V _R = 10 V _{DC} , T _A = 25°C, f = 1 MHz)		C _J	800	pF

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