

**Solid State Devices, Inc.**

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

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DESIGNER'S DATA SHEET**Part Number / Ordering Information** ^{1/}**SSR8045 CT PA UB TX**Screening ^{2/} = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Lead Bending: ^{3/}

= Straight

UB = Up Bend

DB = Down Bend

Package: ^{3/}

P = TO-259, 60 mil pin

PA = TO-259, 40 mil pin

Configuration:

CT = Common Cathode

CA = Common Anode

D = Doubler

DR = Doubler Reverse

SSR8045CTP**Series****80A 45 V****SCHOTTKY****CENTERTAP RECTIFIER****Features:**

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overload Protection
- Isolated Hermetically Sealed Power Package
- Available with Ceramic Seals w/ 40 mil pin
- Custom Lead Forming Available
- Eutectic Die Attach
- 175°C Operating Temperature
- TX, TXV, and S Level Screening Available

Maximum Ratings**Symbol****Value****Units****Peak Repetitive Reverse and DC Blocking Voltage**
 V_{RRM}
 V_{RSM}
 V_R

45

Volts

Average Rectified Forward Current ^{4/}
 (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)
 I_O

80

Amps

Peak Surge Current ^{4/}
 (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)
 I_{FSM}

1200

Amps

Operating & Storage Temperature T_{OP} & T_{STG}

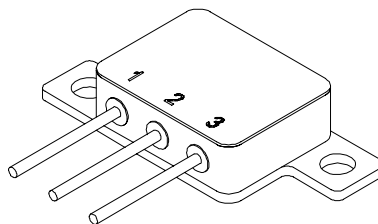
-65 to +175

°C

Maximum Thermal Resistance
 Junction to Case

 Total
 Per Leg
 $R_{\theta JE}$
 0.5
 1.0

°C/W

TO-259 (P)

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

DATA SHEET #: RS0065G**DOC**

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**SSR8045CTP
Series**

Electrical Characteristic ^{2/}		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (T _A = 25°C, 300 – 500usec Pulse)	I _F = 10A	V _{F1}	—	0.53	V _{DC}
	I _F = 20A	V _{F2}	—	0.65	
	I _F = 40A	V _{F3}	—	0.90	
Instantaneous Forward Voltage Drop (T _A = -55°C, 300 – 500usec Pulse)	I _F = 20A	V _{F4}	—	0.70	V _{DC}
Reverse Leakage Current (100% of rated V _R , 300μs pulse min.)	T _A = 25°C	I _{R1}	—	400	μA
	T _A = 100°C	I _{R2}	—	30	mA
Junction Capacitance (V _R =10V _{DC} , T _A =25°C, f=1MHz)		C _J	—	1600	pF

NOTES:1/ For Ordering Information, Price, and Availability Contact Factory.2/ Screening per MIL-PRF-19500.3/ For Package Outlines Contact Factory.4/ Maximum Electrical Rating Shown for Centertap Configurations both Legs Tied Together.
For Doubler Configurations: I_O = 40A, I_{FSM} = 600A.5/ All Electrical Characteristics per Leg @25°C, Unless Otherwise Specified.

Available Part Numbers:			PIN ASSIGNMENT			
SSR8045CTP	SSR8045CTPUB	SSR8045CTPDB	CONFIGURATION	Pin 1	Pin 2	Pin 3
SSR8045CAP	SSR8045CAPUB	SSR8045CAPDB	Common Cathode (CT)	Anode	Cathode	Anode
SSR8045DP	SSR8045DPUB	SSR8045DPDB	Common Anode (CA)	Cathode	Anode	Cathode
SSR8045DRP	SSR8045DRPUB	SSR8045DRPDB	Doubler (D)	Cathode	Common	Anode
			Doubler Reverse (DR)	Anode	Common	Cathode