



Solid State Devices, Inc.

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**SSR1645CTJ
 SSR1645CAJ
 SSR1645DJ**

**16A 45 V
 SCHOTTKY
 RECTIFIER**

DESIGNER'S DATA SHEET

Part Number / Ordering Information^{1/}
 SSR1645 CT J 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/} J = TO-257

+ **Configuration:** CT = Common Cathode
 CA = Common Anode
 D = Doubler

- Features:**
- PIV: 45Volts
 - Low Reverse Leakage Current
 - Low Forward Voltage Drop
 - Guard Ring for Overload Protection
 - Isolated Hermetically Sealed Package
 - Custom Lead Forming Available
 - Eutectic Die Attach
 - 175°C Operating Temperature
 - Ultrasonic Aluminum Wire Bonds
 - 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, $T_A = 25^\circ C$)	I_O	16	Amps
Peak Surge Current ^{4/} (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ C$)	I_{FSM}	250	Amps
Operating & Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JE}$	1.5	°C/W



