



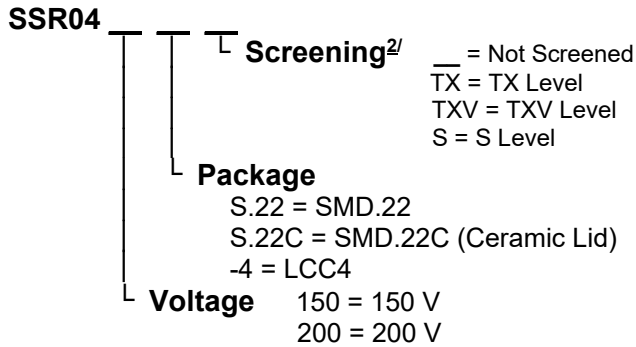
Solid State Devices, Inc.

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**SSR04150S.22 thru SSR04200S.22
 and
 SSR04150-4 thru SSR04200-4**

Designer's Data Sheet

Part Number / Ordering Information^{1/}



**4 AMP
 HERMETIC SURFACE MOUNT
 SCHOTTKY RECTIFIER
 150 - 200 VOLTS**

FEATURES:

- Extremely small footprint
- Extremely low forward voltage drop
- Low reverse leakage
- Hermetically sealed surface mount package
- Guard ring for overvoltage protection
- 175°C operating junction temperature
- TX, TXV, and S level screening available - consult factory

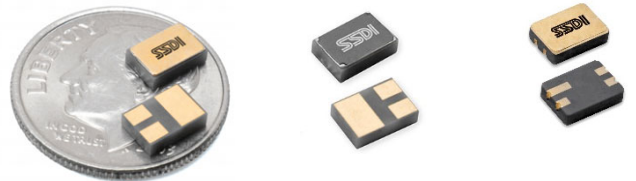
MAXIMUM RATINGS^{3/ 4/}

	Symbol	Value	Unit
Peak Repetitive Reverse and DC Blocking Voltage	SSR04150 SSR04200	V_{RRM} V_{RWM} V_R	150 200 V
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, $T_A = 25^\circ\text{C}$)		I_o	4 A
Peak Surge Current (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}	50 A
Operating & Storage Temperature		T_{OP} & T_{stg}	-65 to +175 °C
Maximum Thermal Resistance (Junction to Case)		$R_{\theta JC}$	16 °C/W

NOTES:

- 1/ For ordering information, price, and availability - contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Unless otherwise specified, all electrical characteristics @ 25°C.
- 4/ SMD.22: For optimal performance, connect anode terminals together.
 LCC4: For optimal performance, connect anode terminals together and cathode terminals together.
- 5/ Pulsed per MIL-STD-750.
- 6/ For SMD.22C (Ceramic Lid) Package Height = .070" ± .010"

SMD.22 (S.22) SMD.22C (S.22C) LCC4 (-4)



(dime used for size reference)

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

DATA SHEET #: SH0073D

DOCX



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**SSR04150S.22 thru SSR04200S.22
 and
 SSR04150-4 thru SSR04200-4**

ELECTRICAL CHARACTERISTICS ^{4/5/}		Symbol	Min	Typ	Max	Unit
Instantaneous Forward Voltage Drop (T _A = 25°C, pulsed)	I _F = 0.1 A	V _{F1}	-	0.57	-	V _{DC}
	I _F = 0.5 A	V _{F2}	-	0.72	0.80	
	I _F = 1 A	V _{F3}	-	0.77	0.85	
	I _F = 2 A	V _{F4}	-	0.84	-	
	I _F = 4 A	V _{F5}	-	0.92	1.00	
Instantaneous Forward Voltage Drop (T _A = -55°C, pulsed)	I _F = 1 A	V _{F6}	-	0.92	-	V _{DC}
	I _F = 2 A	V _{F7}	-	1.11	-	
	I _F = 4 A	V _{F8}	-	1.45	-	
Instantaneous Forward Voltage Drop (T _A = 125°C, pulsed)	I _F = 0.1 A	V _{F11}	-	0.43	-	V _{DC}
	I _F = 0.5 A	V _{F12}	-	0.56	0.65	
	I _F = 1 A	V _{F13}	-	0.62	0.71	
	I _F = 2 A	V _{F14}	-	0.70	-	
	I _F = 4 A	V _{F15}	-	0.79	0.88	
Reverse Leakage Current (Rated V _R , T _A = 25°C, pulsed)		I _{R1}	-	0.15	2	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, pulsed)		I _{R2}	-	30	-	μA
Reverse Leakage Current (Rated V _R , T _A = 125°C, pulsed)		I _{R3}	-	150	200	μA
Reverse Leakage Current (Rated V _R , T _A = 150°C, pulsed)		I _{R4}	-	600	-	μA
Junction Capacitance (f = 1 MHz, T _A = 25°C)	V _R = 5 V	C _J	-	40	-	pF
	V _R = 10 V		-	30	40	

Package Outline:
SMD.22 (S.22) / SMD.22C (S.22C)^{6/}

PIN OUT:
 PIN 1: CATHODE
 PIN 2: ANODE
 PIN 3: ANODE

Note: For optimal performance, connect anode terminals together.

^{6/} Note: For SMD.22C (Ceramic Lid) Package Height = .070" ± .010"

Package Outline:
LCC4 (-4)

PIN OUT:
 PIN 1: CATHODE
 PIN 2: CATHODE
 PIN 3: ANODE
 PIN 4: ANODE

Note: For optimal performance, connect anode terminals together and cathode terminals together.