



Solid State Devices, Inc.

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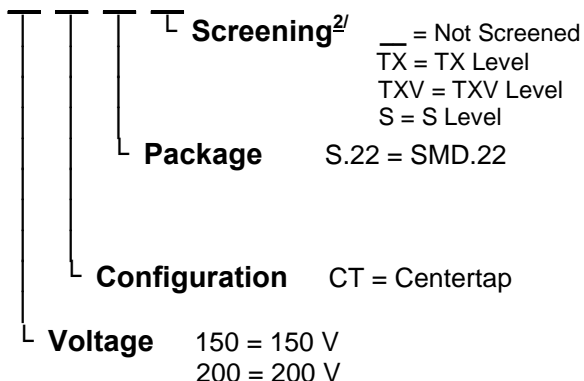


SSR04150CTS.22 thru SSR04200CTS.22

Designer's Data Sheet

Part Number / Ordering Information^{1/}

SSR04



**4 AMP
HERMETIC SURFACE MOUNT
CENTERTAP 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

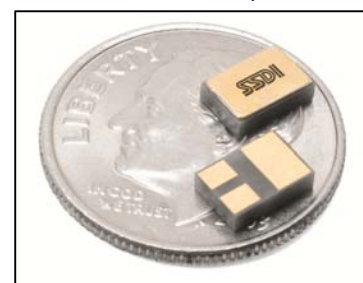
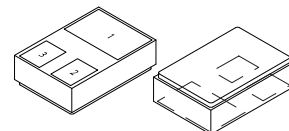
MAXIMUM RATINGS^{3/}

	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	150 200	Volts
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, $T_A = 25^\circ\text{C}$, per leg)	I_O	2	Amps
Peak Surge Current (8.3 ms pulse, half sine wave superimposed on I_O , allow junction to reach equilibrium between pulses, $T_A = 25^\circ\text{C}$; per leg)	I_{FSM}	20	Amps
Operating & Storage Temperature	T_{OP} & T_{stg}	-65 to +175	$^\circ\text{C}$
Maximum Thermal Resistance (Junction to Case, per leg)	$R_{\theta JC}$	16 (typ 12)	$^\circ\text{C/W}$

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.

SMD.22 (S.22)



(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 #: SH0072A

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**SSR04150CTS.22 thru
SSR04200CTS.22**

ELECTRICAL CHARACTERISTICS (per leg) ^{3/}		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T _A =25°C, 300μsec pulse)	I _F = 0.1 A	V _{F1}		0.65	-	V _{DC}
	I _F = 0.5 A	V _{F2}		0.77	0.82	
	I _F = 1 A	V _{F3}	-	0.825	0.87	
	I _F = 1.5 A	V _{F4}		0.865	-	
	I _F = 2 A	V _{F5}		0.90	0.95	
Instantaneous Forward Voltage Drop (T _A =-55°C, 300μsec pulse)	I _F = 1 A	V _{F6}		1.03	-	V _{DC}
	I _F = 2 A	V _{F7}	-	1.34	-	
Instantaneous Forward Voltage Drop (T _A =125°C, 300μsec pulse)	I _F = 0.1 A	V _{F11}		0.49	-	V _{DC}
	I _F = 0.5 A	V _{F12}		0.615	0.69	
	I _F = 1 A	V _{F13}	-	0.685	0.76	
	I _F = 1.5 A	V _{F14}		0.73	-	
	I _F = 2 A	V _{F15}		0.77	0.85	
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300μsec pulse minimum)		I _{R1}	-	0.075	1	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300μsec pulse minimum)		I _{R2}	-	12	-	μA
Reverse Leakage Current (Rated V _R , T _A = 125°C, 300μsec pulse minimum)		I _{R3}	-	55	200	μA
Reverse Leakage Current (Rated V _R , T _A = 150°C, 300μsec pulse minimum)		I _{R4}	-	250	-	μA
Junction Capacitance (f = 1MHz, T _A = 25°C)	V _R = 5V	C _J	-	21	-	pF
	V _R = 10V			16	25	

**Package Outline:
SMD.22 (S.22)**

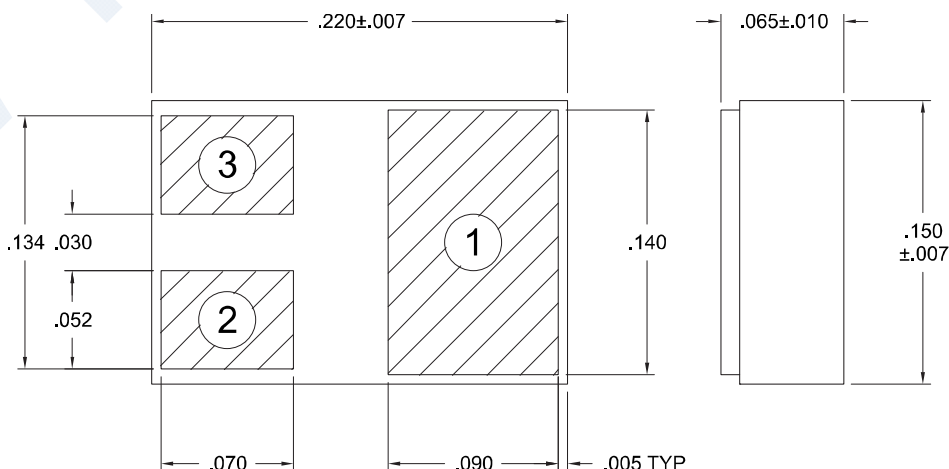
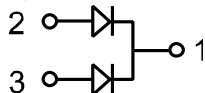
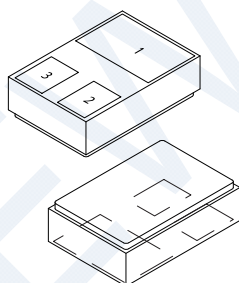
PIN OUT:

PIN 1: CATHODE

PIN 2: ANODE 1

PIN 3: ANODE 2

Note: For optimal performance, connect anode terminals together.



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