

**Solid State Devices, Inc.**

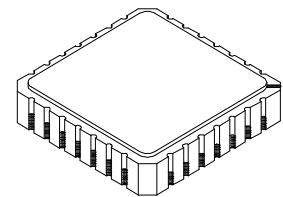
14701 Firestone Blvd * La Mirada, CA 90638

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

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**SDR620-28
THRU
SDR622-28****DESIGNER'S DATA SHEET****Features:**

- Replaces 1N5816 Devices
- Hyper Fast Recovery: 35nsec Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Surface Mount Power Package
- Gold Eutectic Die Attach Available
- Ultrasonic Aluminum Wire Bonds
- TX, TXV, and Space Level Screening Available.

**20 AMP
100-200 Volts
35nsec
Hyper Fast
Rectifier****28 PIN CLCC**

Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage ^{1/}	SDR620-28	V_{RRM}	100	Volts
	SDR621-28	V_{RWM}	150	
	SDR622-28		200	
		V_R		
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, T _A = 25°C)		I_O	20	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T _A = 25°C) ^{2/}		I_{FSM}	100	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case, ^{2/}		R_{θJL}	6.6	°C/W

^{1/} Higher Voltage class available^{2/} Package Limited

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

DATA SHEET #: RH0069B**DOC**



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SDR622-28

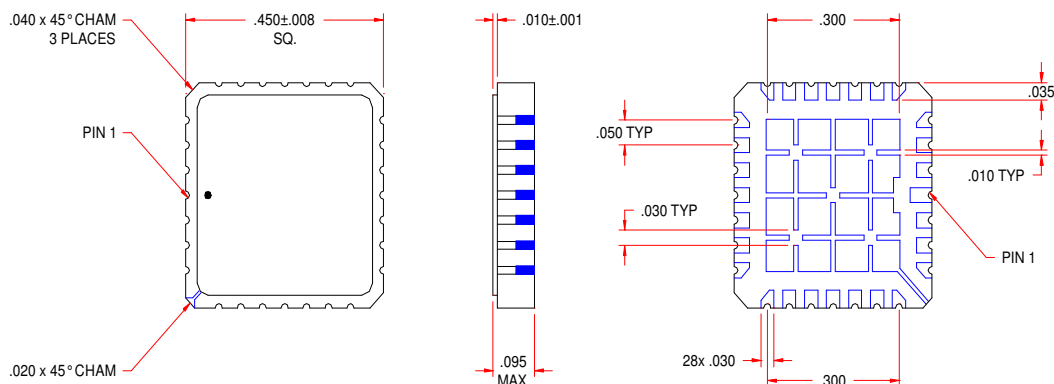
Electrical Characteristics	Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (IF=10Adc, T _A = 25°C, 300 μsec pulse) ^{1/} (IF=20Adc, T _A = 25°C, 300 μsec pulse) ^{1/}	V _{F1}	—	1.1 1.3	Volts
Instantaneous Forward Voltage Drop (IF= 10Adc, T _A = 100°C, 300 μsec pulse) ^{1/} (IF= 10Adc, T _A = -55°C, 300 μsec pulse) ^{1/}	V _{F2}	—	1.0 1.2	Volts
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300 μsec pulse minimum)	I _{R1}	—	10	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300 μsec pulse minimum)	I _{R2}	—	1	mA
Junction Capacitance (V _R = 10 Vdc, T _A = 25°C, f = 1MHz)	C _J	—	225	pF
Reverse Recovery Time (I _F = 0.5A, I _R = 1A, I _{RR} = 0.25A, T _A = 25°C)	t _{rr}	—	35	nsec

CASE OUTLINE: 28 PIN LCC

Pin 1, 15-28: Anode

Pin 5-11: Cathode

Pin 2, 3, 13, 14: N/C



^{1/} For best results connect pins 1, 15-28 together and pins 5-11 together in operation.

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