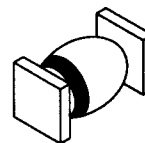




PRELIMINARY

SOLID STATE DEVICES, INC14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**SDR4GSMS
thru
SDR4NSMS****Designer's Data Sheet****FEATURES:**

- Ultra Fast Recovery: 50-80 nsec Max. @ 25°C
85-125 nsec Max. @ 100°C
- Single Chip Construction
- PIV to 1200 Volts
- Low Reverse Leakage Current
- Hermetically Sealed Surface Mount package
- For High Efficiency Applications
- Metallurgically Bonded
- Available in axial leaded versions
- TX, TXV and Space Level Screening

**3 AMP
400-1200 VOLTS
50-80 nsec
ULTRA FAST
RECTIFIER****SURFACE MOUNT
SQUARE TAB****MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR4GSMS SDR4JSMS SDR4KSMS SDR4MSMS SDR4NSMS	VRRM VRWM VR	400 600 800 1000 1200	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	3	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	75	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to End Tab	RθJE	14	°C/W

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.**DATA SHEET #: RU0097 A****RMD**

SDR4GSMS thru SDR4NSMS

PRELIMINARY



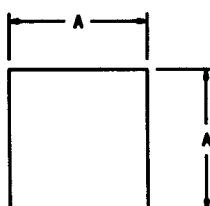
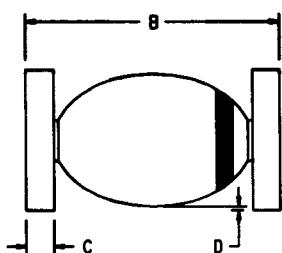
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS		SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA=25°C, 300μs Pulse)	SDR4G-JSMS SDR4K-NSMS	VF	1.9 2.1	Vdc
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA=-55°C, 300μs Pulse)	SDR4G-JSMS SDR4K-NSMS	VF	2.1 2.3	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300μs pulse minimum)		IR	5	μA
Reverse Leakage Current (Rated VR, TA=100°C, 300μs pulse minimum)		IR	0.5	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)		CJ	40	pf
Reverse Recovery Time (IF = 500ma, IR = 1A, IRR=250mA, TA=25°C)	SDR4G-4JSMS SDR4KSMS SDR4MSMS SDR4NSMS	trr	50 60 70 80	nsec

CASE OUTLINE:



DIMENSIONS

DIM	MIN.	MAX.
A	.172"	.180
B	.180"	.280
C	.022"	.028
D	.002"	---

Dimensions prior to solder dipping

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

