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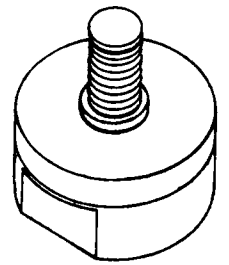
SDR1004UF through SDR1010UF
100 AMP
ULTRAFAST RECOVERY
RECTIFIER
400 - 1000 VOLT

SSDI

14830 VALLEY VIEW AVE
 LA MIRADA, CA 90638
 TEL: (213) 921-9660
 FAX: (213) 921-2396

CASE STYLE S1000

FEATURES



- ▶ PIV 400 TO 1000 VOLTS
- ▶ FAST SWITCHING 60ns TYPICAL
- ▶ LOW REVERSE LEAKAGE
- ▶ LOW THERMAL IMPEDANCE
- ▶ HIGH SURGE CAPABILITY
- ▶ REVERSE POLARITY UNITS AVAILABLE, ADD SUFFIX "R" TO PART NUMBER

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage SDR1004UF SDR1006UF SDR1008UF SDR1010UF	VRM(rep) VR	400 600 800 1000	Volts
RMS Reverse Voltage SDR1004UF SDR1006UF SDR1008UF SDR1010UF	Vr	280 420 560 700	Volts
Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, TC=25 °C)	IO	100	Amps
Peak Repetitive Forward Current (TC=55 °C, 8.3ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	IFM(rep)	180	Amps
Peak Surge Current (TC=55 °C, 8.3ms Pulse, Superimposed on Rated Current at Rated Voltage)	IFM(surge)	1250	Amps
Operating and Storage Temperature	TJ, Tstg	-65 to +150	°C

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Thermal Resistance, Junction to Case	RθJC	0.5	°C/W

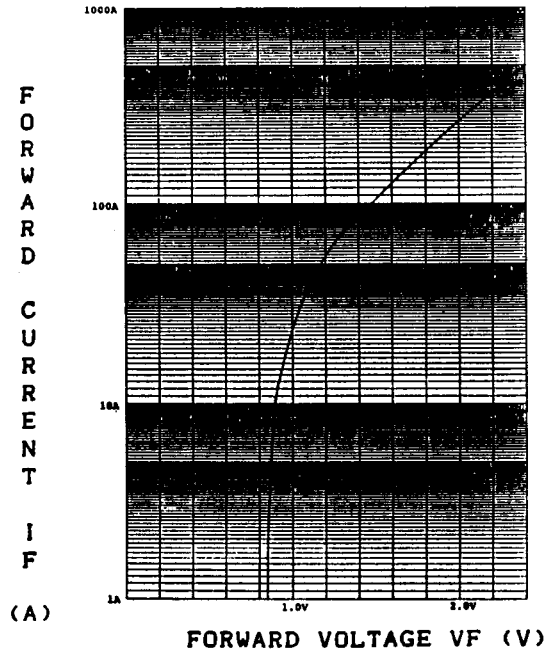
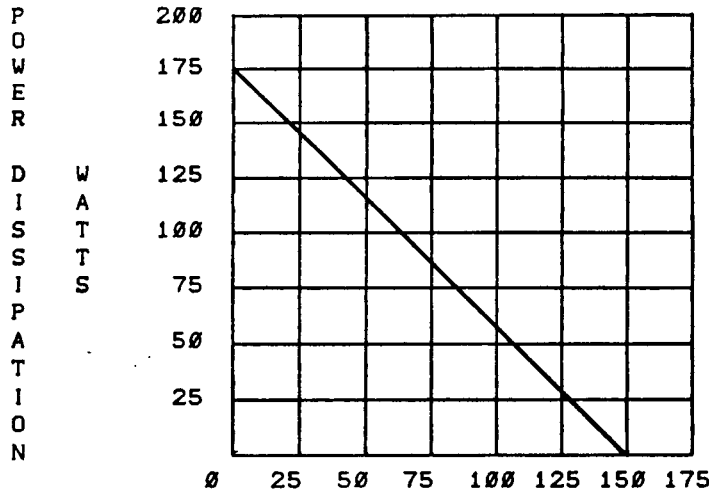
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (IO(MAX), 60Hz, Square Wave, TC=55 °C)	VF(AV)	.85	Volts
Max Instantaneous Forward Voltage Drop (IF= 100Adc, TJ = 25 °C)	VF	1.7	Volts
Max Full Cycle Leakage Current Averaged Over Full Cycle (Rated VR, 60Hz, Square Wave, TC= 100 °C)	IR(AV)	2.0	mAdc
Max Reverse Leakage Current (Rated VR, TC=25 °C)	IR	50	μAdc

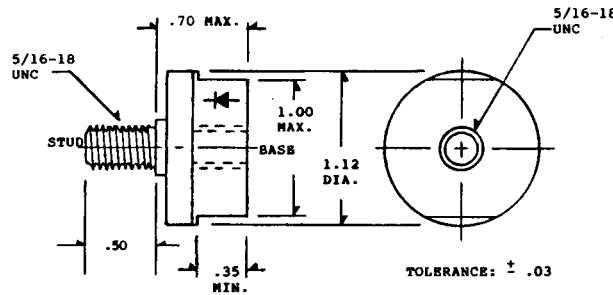
REVERSE RECOVERY CHARACTERISTICS

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Recovery Time (IF= 500mA, IR = 1A, IRR = 250mA)	trr		60	80	ns

TYPICAL OPERATING CURVES



PHYSICAL DIMENSIONS



SSDI SOLID STATE DEVICES, INC.
 14849 FIRESTONE BOULEVARD ♦ LA MIRADA, CA 90638
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