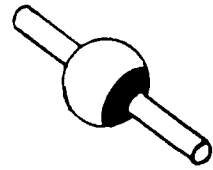


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SDR6A THROUGH SDR6M 6 AMP ULTRA FAST RECOVERY RECTIFIER 50 - 1000 VOLTS	SSDI 14849 FIRESTONE BLVD. LA MIRADA, CA 90638 TEL: (213) 921-9660 FAX: (213) 921-2396
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CASE STYLE



FEATURES

- ▶ PIV TO 1000 VOLTS
- ▶ ULTRA FAST RECOVERY 50ns MAX
- ▶ VOIDLESS CONSTRUCTION
- ▶ FOR HIGH EFFICIENCY APPLICATIONS
- ▶ HERMETICALLY SEALED
- ▶ REPLACES LARGER DO-4 RECTIFIERS

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SDR6A SDR6B SDR6D SDR6G SDR6J SDR6K SDR6M	VR R40017	Volts
RMS Reverse Voltage	SDR6A SDR6B SDR6D SDR6G SDR6J SDR6K SDR6M	Vr 	Volts
Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz. Sine Wave, TA=55 °C)		IO	Amps
Peak Repetitive Forward Current (TA=55C, 8.3ms Pulse. Allow Junction to Reach Equilibrium Between Pulses)		IFM(rep)	Amps
Peak Surge Current (TA=55 °C, 8.3ms Pulse, Superimposed on Rated Current at Rated Voltage)		IFM(surge)	Amps
Operating and Storage Temperature		TJ, Tstg	°C

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Thermal Resistance, Junction to Leads L = 3/8"	RθJL	14	°C/W

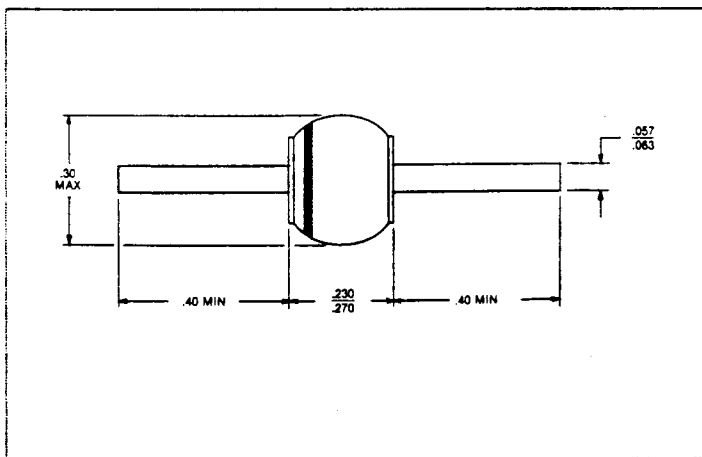
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (IO(MAX), 60Hz, Square Wave, TA=55 °C)	VF(AV) SDR6A-SDR6J SDR6K-SDR6M	.85 .95	Volts
Max Instantaneous Forward Voltage Drop (IF= 6 Adc, 300us Pulse)	VF SDR6A-SDR6J SDR6K-SDR6M	1.7 1.9	Volts
Max Full Cycle Leakage Current Averaged Over Full Cycle (Rated VR, 60Hz, Square Wave, TA=100 °C)	IR(AV)	200	uAdc
Max Reverse Leakage Current (Rated VR, TA=25 °C)	IR	10	uAdc
Max Junction Capacitance (VR = 10V, f = 1MHz)	CJ	80	pf

REVERSE RECOVERY CHARACTERISTICS

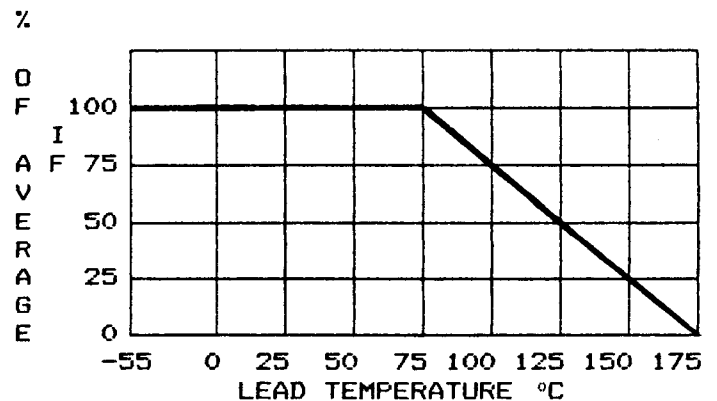
Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Recovery Time SDR6A-J (IF=500mA, IR=1A, IRR=250mA)	trr	-	-	50	ns
Reverse Recovery Time SDR6K (IF=500mA, IR=1A, IRR=250mA)	trr	-	-	60	ns
Reverse Recovery Time SDR6M (IF=500mA, IR=1A, IRR=250mA)	trr	-	-	70	ns

PHYSICAL DIMENSIONS



TYPICAL OPERATING CURVES

MAXIMUM FORWARD CURRENT VS LEAD TEMP



SSDI

SOLID STATE DEVICES, INC.

14849 FIRESTONE BOULEVARD ♦ LA MIRADA, CA 90638
 TELEPHONE: (213) 921-9660 ♦ FAX: (213) 921-2396