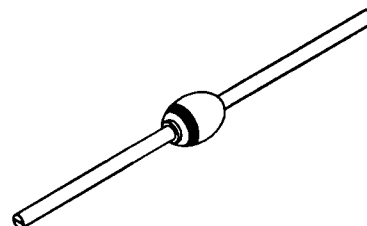




PRELIMINARY

[查询"SDR6K"供应商](#)**SOLID STATE DEVICES, INC**14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**SDR6K
and
SDR6M****Designer's Data Sheet****FEATURES:**

- Ultra Fast Recovery: 60-70 nsec Max. @ 25°C
115-120 nsec Max. @ 100°C
- Single Chip Construction
- PIV to 1000 Volts
- Low Reverse Leakage Current
- Hermetically Sealed
- Replaces larger DO-4 Rectifiers
- Available in Surface Mount versions
- Metallurgically Bonded
- TX, TXV and Space Level Screening Available

**6 AMP
800-1000 VOLTS
60-70 nsec
ULTRA FAST
RECTIFIER****AXIAL****MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR6K SDR6M	VRRM VRWM VR	800 1000	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	6	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	150	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Leads, L=3/8"	RθJL	12	°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 #: RU0017 A****RMD**

SDR6K
infrared
SDR6M

PRELIMINARY



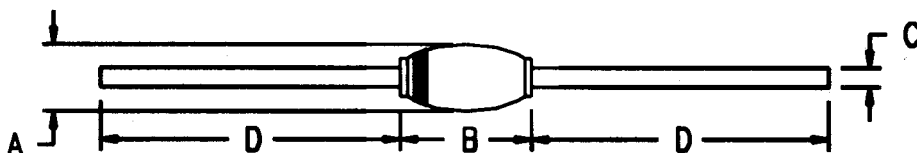
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 6 \text{ A}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.9	Vdc
Instantaneous Forward Voltage Drop ($I_F = 6 \text{ A}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	V_F	2.1	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	I_R	10	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	I_R	1	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	80	pf
Reverse Recovery Time ($I_F = 500 \text{ mA}$, $I_R = 1 \text{ A}$, $I_{RR} = 250 \text{ mA}$, $T_A = 25^\circ\text{C}$)	t_{rr}	60 70	nsec

CASE OUTLINE:



DIMENSIONS

DIM	MIN.	MAX.
A	---	.200"
B	---	.270"
C	.055"	.063"
D	.400"	---

TYPICAL OPERATING CURVES

$T_A = 25^\circ\text{C}$ Unless otherwise specified

