





**Solid State Devices, Inc.**

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**SDR6K  
and  
SDR6M**

**ELECTRICAL CHARACTERISTICS <sup>3/</sup>**

CHARACTERISTICS	SYMBOL	VALUE	UNIT
Instantaneous Forward Voltage Drop ( $I_F = 6A_{dc}$ , 300 $\mu s$ Pulse, $T_A = 25^\circ C$ )	$V_{F1}$	2.20	Vdc
Instantaneous Forward Voltage Drop ( $I_F = 6A_{dc}$ , 300 $\mu s$ Pulse, $T_A = -55^\circ C$ )	$V_{F2}$	2.10	Vdc
Maximum Reverse Leakage Current (Rated $V_R$ , 300 $\mu s$ Pulse Minimum , $T_A = 25^\circ C$ )	$I_{R1}$	10	$\mu A$
Maximum Reverse Leakage Current (Rated $V_R$ , 300 $\mu s$ Pulse Minimum , $T_A = 100^\circ C$ )	$I_{R2}$	1	mA
Junction Capacitance ( $V_R = 10V_{dc}$ , $T_A = 25^\circ C$ , $f = 1MHz$ )	$C_J$	80	pf
Maximum Reverse Recovery Time <sup>4/</sup>	$t_{rr}$	90	ns

**Axial Leaded Case Outline <sup>5/</sup>:**

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

The diagram shows a side view of the axial leaded case with dimensions D, B, and D indicated. A top view shows the circular case with diameters ØC and ØA indicated.

**NOTES:**

- 1/ For Ordering Information, Price, and Availability- Contact Factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 4/ Recovery Conditions:  $I_F = 0.5$  Amp,  $I_R = 1.0$  Amp,  $I_{RR}$  to .25 Amp.
- 5/ For information on operating curves, contact factory.