

14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

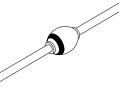
SDR526 thru SDR529 SDR526SMS thru SDR529SMS

Designer's Data SheetPart Number/Ordering Information $\frac{1}{2}$ CScreening $\frac{2}{2}$ CPackage TypeAxialSMS = Surface Mount SquareTabVoltage/Family $6 = 600V$ $7 = 700V$ $8 = 800V$ $9 = 900V$	 Hyper PIV up Avalan Herme For Hig Single Metallu 	 PIV up to 900 Volts Avalanche Breakdown Hermetically Sealed For High Efficiency High Voltage Applications Single Chip Construction Metallurgically Bonded TX, TXV, and Space Level Screening 			
MAXIMUM RATINGS		Symbol	Value	Units	
Peak Repetitive Reverse Voltage and DC Blocking Voltage @ 50µA	SDR526 SDR527 SDR528 SDR529	V _{RRM} V _{RWM} V _R	600 700 800 900	Volts	
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T _A =25°C)		I _o	3	Amps	
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, Superimposed on I _O , allov reach equilibrium between pulses, T _A =25°C)	w junction to	I _{FSM}	60	Amps	
Operating and Storage Temperature		T _{OP} & T _{stg}	-65 to +175	°C	
Maximum Thermal Resistance Junction to Lead, L = 0.125" (Axial Lead) Junction to End Tab (Surface Mount)		R _{θJL} R _{θJE}	20 10	°C/W	

Notes:

Axial

Surface Mount Square Tab (SMS)



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RC0049F	DOC
--	-----------------------	-----

1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.

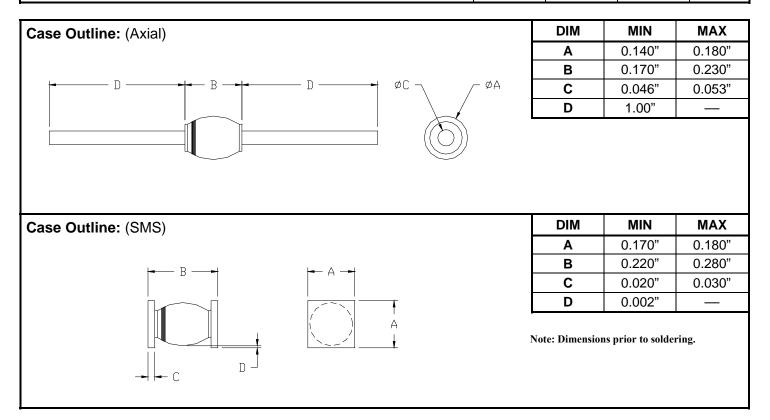
2/ Screening Based on MIL-PRF-19500. Screening Flow Available on Request.



Solid State Devices, Inc. 14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

SDR526 thru SDR529 SDR526SMS thru SDR529SMS

ELECTRICAL CHARACTERISTICS		Symbol	Min	Max	Unit
Instantaneous Forward Voltage Drop ($I_F = 3 A_{DC}$, 300 - 500 μ sec Pulse)	$\begin{array}{l} T_{A} = 25^{\mathrm{o}}C \\ T_{A} = -55^{\mathrm{o}}C \end{array}$			2.50 2.50	Volts Volts
Reverse Leakage Current (Rated V_R , 300 μ sec minimum pulse)	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	I _{R1} I _{R2}		50 250	μ Α μ Α
Junction Capacitance ($V_R = 10 V_{DC}, T_A = 25^{\circ}C, f = 1 MHz$)		CJ		50	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}		35	ns



NOTES:

Consult manufacturing for operating curves.

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RC0049F	DOC
--	-----------------------	-----