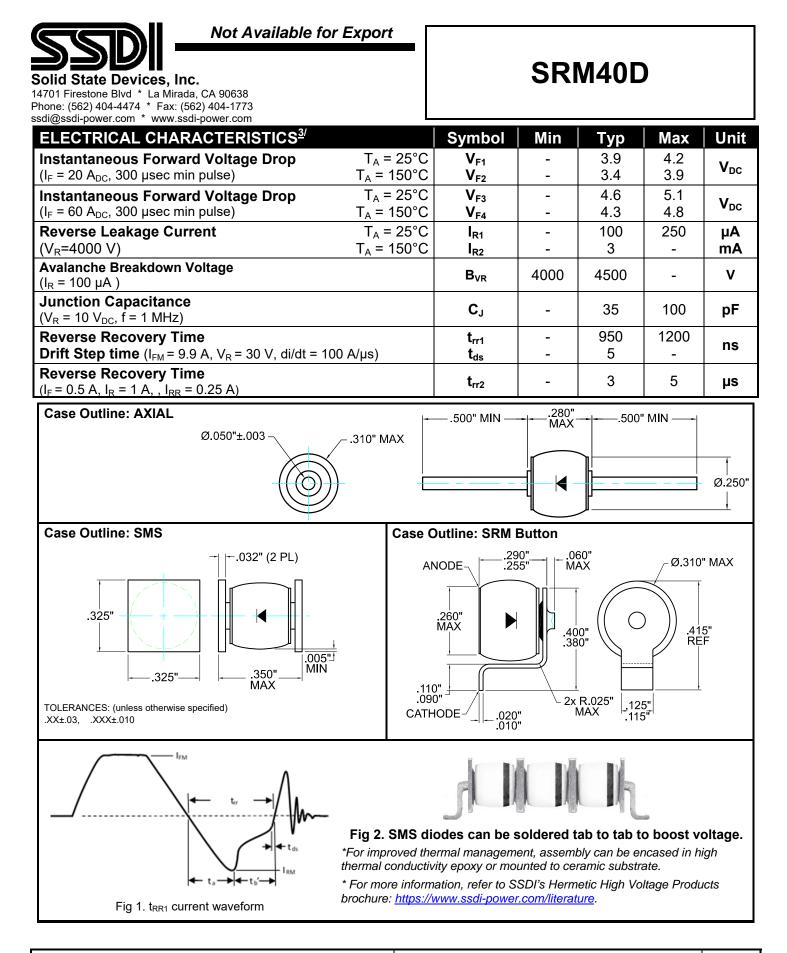
| Solid State Devices, Inc. | | SRM40D | | | |
|---|--|--|--------------------------------------|-----------------|--|
| Solid State Devices, IffC. 14701 Firestone Blvd * La Mirada, CA 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com Designer's Data Sheet Part Number / Ordering Information ^{1/} SRMD L Screening 2/ | 20 AMP DRIFT STEP RECOVERY DIODE (DSRD) 4000 VOLTS tds = 5 nsec (typ) | | | | |
| | FEATURES: Extremely fast rise time (snappy recovery) Robust ceramic body Hermetically sealed void-free construction Low reverse leakage current Low thermal resistance TX, TXV, and Space Level Screening Available APPLICATIONS: High Power Microwave (HPM) Pulse Generator Radar | | | | |
| MAXIMUM RATINGS | | Symbol | Value | Unit | |
| Peak Repetitive Reverse Voltage and DC Blocking Voltage | SRM40D | V _{RRM} V _{RWM} V _R | 4000 | v | |
| | /8", T _L ≤55°C @ T _E ≤ 55°C @ T _C ≤ 55°C | lo | 5 8 20 | A | |
| | ′8", T _L ≤ 55°C @ T _E ≤ 55°C @ T _C ≤ 55°C | PD | 12 24 60 | w | |
| Peak Surge Current (8.3 ms Pulse, Half Sine Wave, Allow Junction to Reach Equilibrium Between Pulses, T _L or T _C = 55°C) | | I _{FSM} | 80 | A | |
| Operating and Storage Temperature | | T _{OP} & T _{stg} | -65 to +175 | °C | |
| Maximum Thermal Resistance Junction to Lead, L = 3/8" Junction to End Tab Junction to Case | Axial () SMS Button (BTR) | R _{θJL} R _{θJE} R _{θJC} | 10 5 2 | °C/W | |
| Notes: 1/ For ordering information, price, operating curves, and availability- Contact factory. 2/ Screening based on MIL-PRF-19500. Screening flows available on request. | | Axial () | Surface Mount Square Tab (SMS) | Button (BTR) | |
| 3/ Unless otherwise specified, all maximum ratings/electrical characteristics @25°C. | |) > | | | |
| | | | | | |



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

DATA SHEET #: RC0204A

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