



**Cathode to Stud Shown**  
**(Anode to Stud add Suffix R)**

Symbol



MAXIMUM RATINGS ( $T_j = 25^\circ C$ unless stated otherwise)										
Parameter	Symbol	SD203N/R 04S10	SD203N/R 06S10	SD203N/R 10S10	SD203N/R 12S15	SD203N/R 14S15	SD203N/R 16S15	SD203N/R 20S20	SD203N/R 25S20	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	800	1000	1200	1400	1600	2000	2500	Volt
Maximum Average On-State Current	$I_{F(AV)}$	200								Amp
Peak Forward Surge Current 8.3mS	$I_{FSM}$	730								Amp
Maximum $I^2T$ for Fusing 8.3ms	$I^2T$	4400								A <sup>2</sup> /S
Maximum Storage Temperature Range	$T_{(STG)}$	-40 to +125								$^\circ C$
Maximum Junction Temperature Range	$T_j$	-40 to +150								$^\circ C$

ELECTRICAL CHARACTERISTICS at $T_j = 25^\circ C$ Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Maximum Forward Voltage	$V_{FM}$	$I_{FM} = 628$ Amps			1.65	Volt
Repetitive Peak Off- State Current	$I_{RRM}$	$V_R = V_{RRM}, T_j = 125^\circ C$			35	mA
Reverse Recovery Time	$t_{RR}$				2.4	$\mu S$
Reverse Recovery Time	$t_{RR}$				2.9	$\mu S$
Reverse Recovery Time	$t_{RR}$				3.2	$\mu S$
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.115	$^\circ C/W$
Mounting Torque	$M_T$				24.5	NM
Weight	Wt				250	grms

