



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

Symbol



MAXIMUM RATINGS (Tj = 25°C unless stated otherwise)										
Parameter	Symbol	SD203N/R 04S10	SD203N/R 08S10	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								°C
Maximum Junction Temperature Range	$T_J$	-40 to +150								°C

ELECTRICAL CHARACTERISTICS at Tj = 25°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	µS
Reverse Recovery Time	$t_{RR}$				2.9	µS
Reverse Recovery Time	$t_{RR}$				3.2	µS
Thermal Resistance (Junction to Case)	$R_{TH (J-C)}$				0.115	°C/W
Mounting Torque	$M_T$				24.5	NM
Weight	Wt				250	grms

