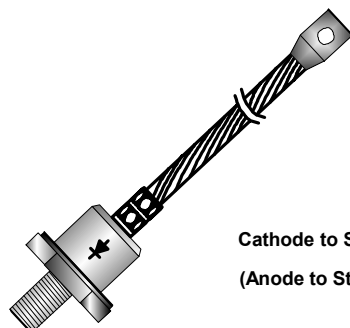




1N1396-1N1403

High Current Rectifier

$V_{RRM} = 50-600V$, $I_{F(AV)} = 100 A$, $V_F = 1.2V$



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

Symbol



Cathode to Stud Symbol

MAXIMUM RATINGS (T _j = 25 °C unless stated otherwise)										
Parameter	Symbol	1N1396	1N1397	1N1398	1N1399	1N1400	1N1401	1N1402	1N1403	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	Volt
Maximum Average On-State Current	I _{F(AV)}	100								Amp
Peak Forward Surge Current	I _{FSM}	1600								Amp
Maximum I ² T for Fusing	I ² T	10700								A ² /S
Maximum Storage Temperature Range	T _(STG)	-65 to +200								°C
Maximum Junction Temperature Range	T _j	-65 to +200								°C

ELECTRICAL CHARACTERISTICS at T _j = 25 °C Maximum. Unless stated Otherwise				Value			Unit
Parameter	Symbol	Condition		Min	Typ	Max	
Maximum Forward Voltage	V _{FM}	I _{FM} = 200 Amps			1.2		Volt
Repetitive Peak Off- State Current (1)	I _{DRM(1)}	V _R = V _{RRM}			20.0		μA
Repetitive Peak Off- State Current (2)	I _{DRM(2)}	V _R = V _{RRM} , T _j = 150°C				5	mA
Operating Frequency	f _(MAX)					7.5	KHz
Thermal Resistance (Junction to Case)	R _{TH (J-c)}					0.40	°C/W
Mounting Torque	M _T					11.3	NM
Weight	Wt					78	grms

