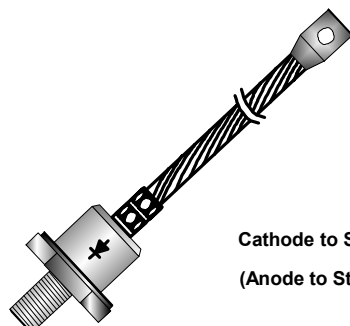




1N3972-1N3975 Series

High Current Rectifier

$V_{RRM} = 200-800V$, $I_{F(AV)} = 100 A$, $V_F = 1.2V$



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

Symbol



Cathode to Stud Symbol

MAXIMUM RATINGS ($T_J = 25^\circ C$ unless stated otherwise)						
Parameter	Symbol	1N3972	1N3973	1N3974	1N3975	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	Volt
Maximum Average On-State Current	$I_{F(AV)}$	100				Amp
Peak Forward Surge Current	I_{FSM}	1600				Amp
Maximum I^2T for Fusing	I^2T	10700				A ² /S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +200				$^\circ C$
Maximum Junction Temperature Range	T_J	-65 to +200				$^\circ C$

ELECTRICAL CHARACTERISTICS at $T_J = 25^\circ C$ 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)	$I_{DRM(2)}$	$V_R = V_{RRM}$, $T_J = 150^\circ C$			5	mA
Operating Frequency	$f_{(MAX)}$				7.5	KHz
Thermal Resistance (Junction to Case)	$R_{TH (J-c)}$				0.40	$^\circ C/W$
Mounting Torque	M_T				11.3	NM
Weight	Wt				78	grms

