



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

Symbol



Cathode to Stud Symbol

MAXIMUM RATINGS (Tj = 25 °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 <sup>2</sup> /S
Maximum Storage Temperature Range	$T_{(STG)}$	-65 to +200				°C
Maximum Junction Temperature Range	$T_j$	-65 to +200				°C

ELECTRICAL CHARACTERISTICS at Tj = 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)	$I_{DRM(2)}$	$V_R = V_{RRM}, T_j = 150^{\circ}C$			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	

