



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	1N3139	1N3140	1N3141	1N3142	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	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 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

