



**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 <sup>2</sup> T for Fusing	I <sup>2</sup> T	10700				A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-65 to +200				°C
Maximum Junction Temperature Range	Tj	-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

