

POWER SCHOTTKY RECTIFIERS 1N6392

ABSOLUTE MAXIMUM RATINGS

Working Peak Reverse Voltage, V_{RWM}	45V
DC Blocking Voltage, V_R	45V
Peak Repetitive Surge Voltage, $V_{RSM} @ I_{RSM}$	54V
Peak Repetitive Forward Current (Rated V_R , Square Wave, 20kHz, 50% Duty Cycle), I_{RPM}	120A (at $T_C = 115^\circ\text{C}$)
Average Rectified Forward Current, I_{FAV}	60A (at $T_C = 115^\circ\text{C}$)
Non-Repetitive Peak Surge Current (8.3ms), I_{RSM}	1,000A
Peak Reverse Transient Current, I_{RM}	2A
Operating and Storage Temperature Range	-55°C to $+175^\circ\text{C}$
Thermal Resistance, Junction to Case, $R_{\theta JC}$	1.0°C/W

ELECTRICAL CHARACTERISTICS ($T_{CASE} = 25^\circ\text{C}$)

Characteristic	Symbol	Limit	Units	Conditions
Maximum Instantaneous Reverse Current	i_R	20	mA	$V_R = V_{RWM}$ $T_C = 125^\circ\text{C}$ $T_C = 175^\circ\text{C}$ Pulse Width = 400 μs Duty Cycle = 1%
		60	mA	
		600	mA	
Maximum Instantaneous Forward Voltage	V_F	0.47	V	$i_F = 10\text{A}, T_C = 25^\circ\text{C}$ $i_F = 60\text{A}, T_C = 25^\circ\text{C}$ $i_F = 120\text{A}, T_C = 125^\circ\text{C}$ Pulse Width = 300 μs Duty Cycle = 1%
		0.68	V	
		0.82	V	
Maximum Capacitance	C_T	3000	pF	$V_R = 5.0\text{V}$

MECHANICAL SPECIFICATIONS

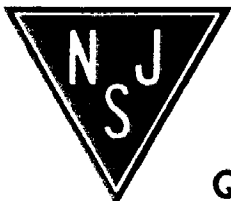
JAN, JANTX, JANTXV 1N6392

	INCHES	MILLIMETERS
A	.225 ± .005	5.72 ± 0.13
B	.060 MIN.	1.52 MIN.
C	.156 ± .020	3.96 ± 0.51
D	.156 MIN. FLAT	3.96 MIN. FLAT
E	.667 DIA. MAX.	16.84 DIA. MAX.
F	.090 MAX.	2.29 MAX.
G	.677 ± .010	17.20 ± 0.25
H	.375 MAX.	9.53 MAX.
J	.140 MIN. DIA.	3.56 MIN. DIA.
K	1.000 MAX.	25.40 MAX.
L	.480 MAX.	11.43 MAX.
M	.438 ± .015	11.13 ± 0.38
N	.078 MAX.	1.98 MAX.

DO-5

NOTES:

1. Cathode is stud.
2. All metal surfaces tin plated.
3. Maximum unlubricated stud torque: 30 inch pounds (35 kg. cm).
4. Angular orientation of terminal is undefined.



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