20 STERN A SPRINGFIEI	VE. LD, NEW JERSEY 070	81 Silioon	D AVALANCHE Doctifior	TELEPHONE: (973) 376-292 (212) 227-600 FAX: (973) 376-896	
U.J.A.		2 111C011	Reclinei		
		35A Avg.	Up to 1200V	1N4529-30	
		MAXIMUM ALLOWA	ABLE RATINGS		
Туре	Repetitive & Working. Peak Reverse Voltage* V _{RM} (rep), V _{RM} (wkg) T _J = -65°C to +175°C (Note: 1)	MINIMUM Avalanche Breakdown Voltage, BVx, (5 mA test current at T; == 25°C)	MAXIMUM Avalanche Breakdown Voltage, BV _R , (5 mA test current at $T_2 = 25$ °C)	Full-Load Reverse Current (full-cycle avg., 115°C Tc, 1 φ), In(λγ)	
	Volts**	Volts	Volts	Milliamperes**	
1N4529,R 1N4530,R	1000 1200	1250 1500	1550 1930	2.5 2.0	
Average For Peak One-Cy Minimum I ² Reverse Pow	35 Amperes** 500 Amperes** 500 Ampere ² seconds				
$T_{J} = +2$ $T_{Y} = +2$					
-j - i.		(For other conditions	, see Curve 2)	4.0 Knowatts	
Average DC Peak Revers Forward Pea	Reverse Power in Bre e Power in Breakdow ak Voltage Drop, V _{FM}	eakdown Region (-65°C n Region (repetitive) (N (T _c = +115°C, I _o = 12 an	≤ T _c ≤ +115°C) (Note: : Note: 2) npere avg.)	2)	
Operating Ju Storage Tem Stud Torque					
*Maximum voltag *Indicates values	res apply with a heatsink ther included in JEDEC Type Nu	mal resistance of 8°C/watt, or less, mber Registration	, at maximum rated junction tempe	rature. 35 Kg-cm	

NOTES: (1) Vax(rep) applies for a conventional AC to DC conversion application. Vax(rep) and Vax(wkg) can be considered unlimited providing that the addi-tional reverse power generation is taken into account by allowing for its influence on the forward current rating. Considerations similar to voltage regulator diode applications would apply.

These ratings assume no forward power dissipation. In applications requiring both forward and reverse average power dissipation, reduce case temperature as determined from the maximum case temperature versus average forward current curve by 2.0°C for every watt of average reverse power dissipation. (2)

(8) Case temperature, Tc, is measured at the center of any one of the hex flats.

	INCHES		MILLIMETERS		NOTES
SYMBOL	MIN.	MAX.	MIN.	MAX.	NULES
A		.450		11.43	
ь		.375		9.53	2
с		.080		2.03	
٥D		.667		16.94	
E	.667	.687	16.94	17.45	
F	.115	.200	2.92	5.08	
F ₁	.060		1.52		
J		1.000		25.40	
1	.156		3.96		4
φM	.220	.249	5.59	6.32	I
N	.422	.453	10.72	11.51	
φt	.140	.175	3.56	4,45	
W					1,3

OUTLINE DRAWING



4 MINIMUM FLAT.

EIA -NEMA STANDARD OUTLINE, NEMA SK-51 - EIA RS-241. INSULATING HARDWARE IS AVAILABLE UPON REQUEST.

COMPLIES WITH EIA REGISTERED OUTLINE DO-6



Quality Semi-Conductors