

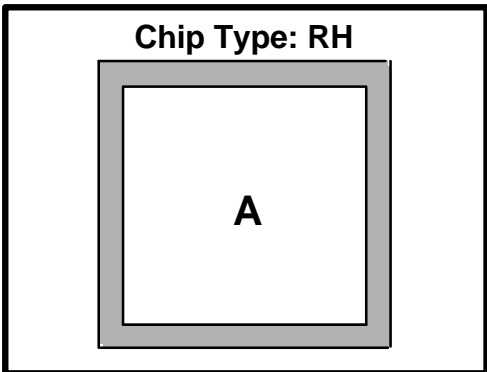
1N5802
1N5804
1N5806
JANHCE and JANKCE
JANHCF and JANKCF

FEATURES:

- Chip Outline Dimensions: 41 x 41 mils
- Chip Thickness: 8 to 12 mils
- Anode Metallization: Aluminum
- Metallization Thickness: 50,000Å Nominal
- Bonding Area: 23 x 23 mils Min.
- Back Metallization: Gold
- Junction Passivated with Thermal Silicon Dioxide - Planar Design
- Backside Available with Solderable Ag Backside as JANHCF or JANKCF

2.5 AMPS
FAST RECOVERY
RECTIFIER CHIP
50 - 150 VOLTS

TYPE	V _R	V _{BR}	I _O T _j = 75°C
JANHCE1N5802	50V	60V	2.5A
JANHCE1N5804	100V	110V	2.5A
JANHCE1N5806	150V	160V	2.5A
JANKCE1N5802	50V	60V	2.5A
JANKCE1N5804	100V	110V	2.5A
JANKCE1N5806	150V	160V	2.5A



ELECTRICAL CHARACTERISTICS:

CHARACTERISTIC	SYMBOL	TYPICAL	MAX.	UNITS
Reverse Current Rated V _R , T _C = 25°C	I _R	.01	1	μA
Reverse Current Rated V _R , T _C = 100°C	I _R	1.0	50	μA
Forward Voltage Drop I _F = 1A, T _C = 25°C	V _F	.80	.875	Volts
Junction Capacitance @ V _R = 10V	C _j	15	25	Pf

REVERSE RECOVERY CHARACTERISTICS:

CHARACTERISTIC	SYMBOL	TYPICAL	MAX.	UNITS
Reverse Recovery Time I _F = 0.5A, I _R = 0.5A, I _{RR} = 0.05A	T _{rr}	20	25	ns
Forward Recovery Voltage @ 1A T _{rr} = 8ns	V _{rr}	1.5	2.2	V
Forward Recovery Time I _{FM} = 250 mA			15	ns

1N5802
1N5804
1N5806
JANHCE and JANKCE
JANHCF and JANKCF

GROUP A ELECTRICALS

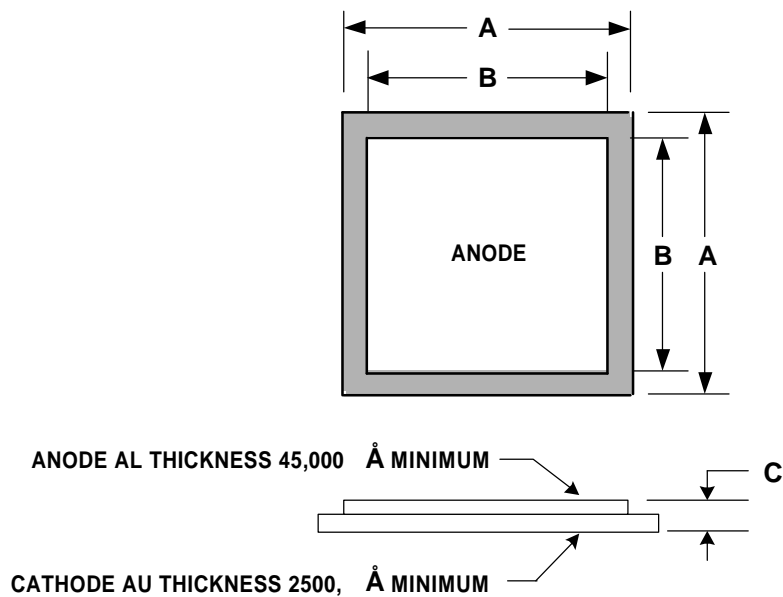
DRAWING NUMBER: MIL-S-19500/477 NUMBER: JANKCE1N5802/5804/5806 D00G1N5802/5804/5806KC

TEST #	SYMBOL	TEST CONDITIONS	MINIMUM	MAXIMUM	UNIT	
1		SUBGROUP A2				
2						
3	V _{FM1}	I _{FM} = 1.0 A		.875	V	
4	V _{FM2}	I _{FM} = 2.5 A		.975	V	
5	I _{R1}	V _R = 50 V (5802) V _R = 100 V (5804) V _R = 150 V (5806)		1.0	μA	
6	V _{(BR)1}	I _(BR) = 100 μA	1N5802 1N5804 1N5806	60 110 160	V V V	
7						
8		SUBGROUP A3				
9	I _{R2}	V _R = 50 V (5802) V _R = 100 V (5804) V _R = 150 V (5806)	T _A = + 100°C	50	μA	
10	V _{FM3}	I _{FM} = 1.0 A	T _A = + 100°C	0.800	V	
11	V _{FM4}	I _{FM} = 1.0 A	T _A = - 65°C	1.075	V	
12	V _{(BR)2}	I _(BR) = 100 μA	T _A = - 65°C	1N5802 1N5804 1N5806	50 100 150	V V V
13						
14		SUBGROUP 4				
15	t _{rr}	I _F = I _R = 0.5 A I _{RM(REC)} = 0.05 A di/dt = 65 A/μs (min)		25	nS	
16	C _J	V _R = 10 V, f = 1 Mhz V _{sig} = 50 mV (P-P) (MAX)		25	pF	
17	V _{FRM}	t _r = 8 nS I _{FM} = 250 mA		2.2	V	
18	t _{fr}	t _p ≥ 20 nS t _r 8 nS V _{FR} = 1.1 x V _F I _{FM} = 250 mA(pk)		15	nS	

1N5802
 1N5804
 1N5806
 JANHCE and JANKCE
 JANHCF and JANKCF

DIE DIMENSIONS:

MIL-PRF-19500/477C



1N5802, 1N5804, 1N5806

Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.039	.043	1.00	1.09
B	.031	.035	0.79	0.89
C	.008	.012	0.20	0.30

Notes:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

Figure 7. JANC (E-version) die dimensions.

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.