

- 1 AMP SCHOTTKY BARRIER RECTIFIER CHIP
- COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES, WITH THE EXCEPTION OF SOLDER RELOW

Qualified per MIL-PRF-19500/586

DEVICE

1N5819

QUALIFIED LEVELS

JANHCA

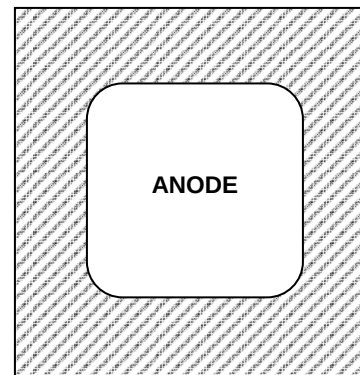
JANKCA

MAXIMUM RATING AT 25°C

Operating Temperature: -55°C to +110°C
 Storage Temperature: -55°C to +150°C
 Average Rectified Forward Current: 1.0 AMP @ T_L +55°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C, unless otherwise specified)

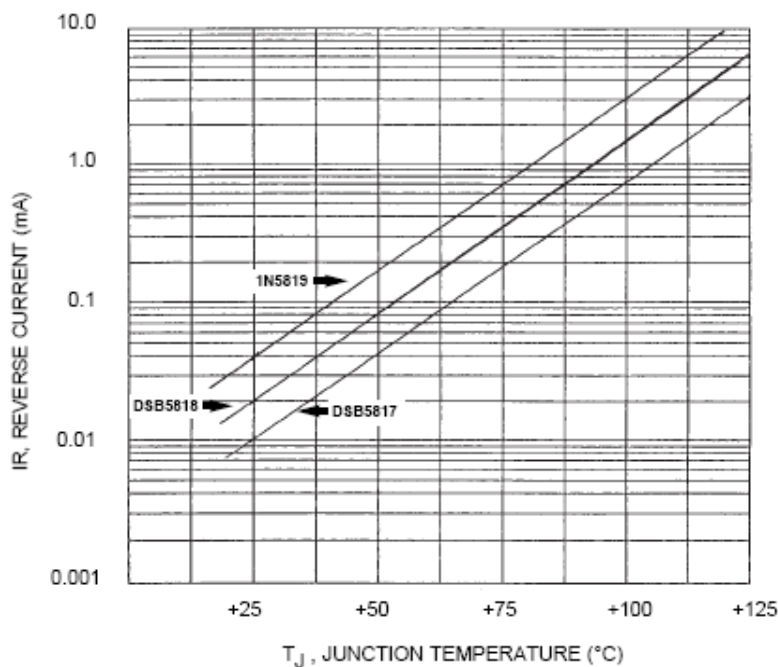
TYPE NUMBER	WORKING PEAK REVERSE VOLTAGE	MAXIMUM FORWARD VOLTAGE			MAXIMUM REVERSE LEAKAGE CURRENT AT RATED VOLTAGE	
	V _{RWM}	V _F @ 0.1A	V _F @ 1.0A	V _F @ 3.1A	I _R @ 25°C	I _R @ 100°C
	VOLTS	VOLTS	VOLTS	VOLTS	mA	mA
1N5819	45	0.34	0.49	0.8	0.050	5.0



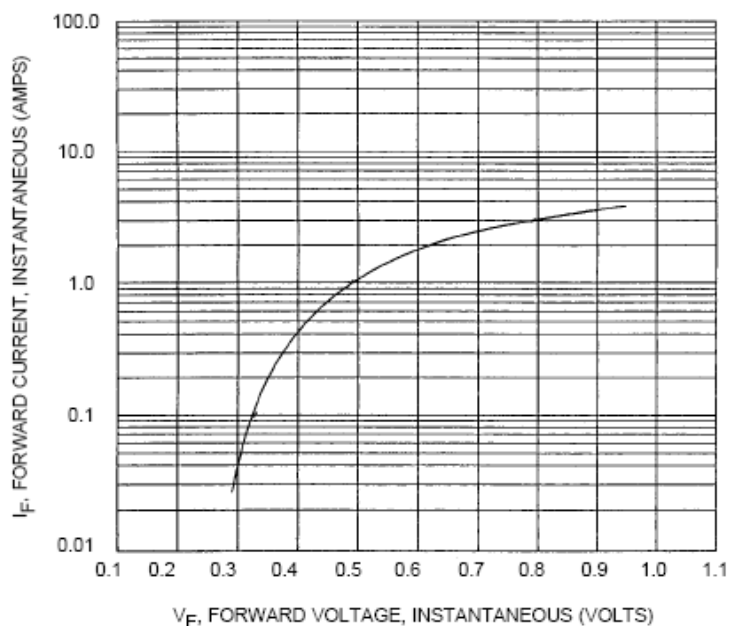
37 MIL SQUARE

GRAPH

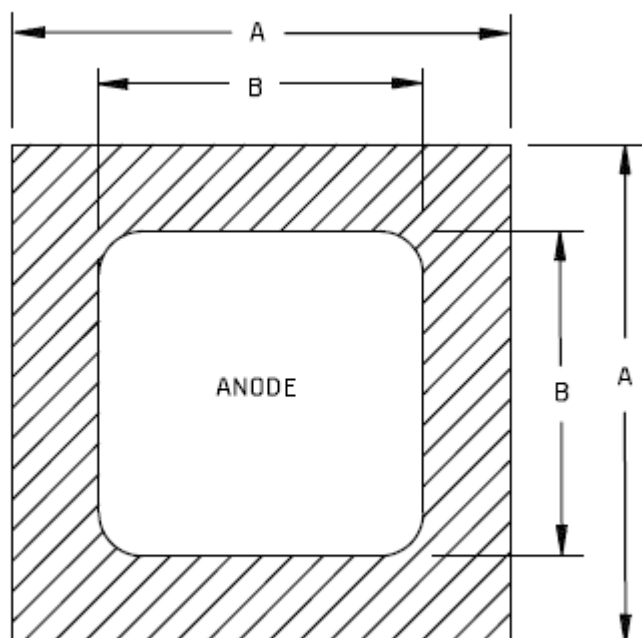
TYPICAL REVERSE LEAKAGE CURRENT AT RAATED PIV (PULSED)



TYPICAL FORWARD VOLTAGE



DIE DIMENSIONS



BACKSIDE IS CATHODE

DESIGN DATA

Metallization:

Top: (Anode)..... Al

Back: (Cathode)..... Au

Al thickness..... 25,000Å min

Gold thickness..... 4,000Å min

Chip thickness..... 10 Mils ±2 Mils

Symbol	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	.035	.039	0.89	0.99
B	.031	.033	0.79	0.84