

Microsemi Corp.
The diode experts

SANTA ANA, CA

For more information call:
(714) 979-8220

**ALSO
AVAILABLE IN
SURFACE
MOUNT**

**IN6461 thru
IN6468 and
IN6469 thru
IN6476**

FEATURES

- HIGH SURGE CAPACITY PROVIDES TRANSIENT PROTECTION FOR MOST CRITICAL CIRCUITS.
- TRIPLE LAYER PASSIVATION.
- SUBMINIATURE.
- METALLURGICALLY BONDED.
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE.
- DYNAMIC IMPEDANCE AND REVERSE LEAKAGE LOWEST AVAILABLE.
- JAN/TX/TVX TYPES AVAILABLE PER MIL-S-19500/551, 552.

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C.
Storage Temperature: -65°C to +200°C.
Surge Power 500W & 1500W
Power @ TA = 25°C (3%) 2.5W 500W Type
Power @ TL = 50°C (3%) 5.0W 1500W Type

ELECTRICAL CHARACTERISTICS

SERIES TYPE		BREAK DOWN VOLTAGE V _(BR) MIN.	TEST CURRENT I _T		WORKING PEAK VOLTAGE V _{WM}	MAX LEAKAGE CURRENT I ₀		MAX CLAMPING VOLTAGE V _C	MAX PEAK PULSE CURRENT I _(PP)		MAX. TEMP. COEF. OF V _(BR)
500W	1500W	Vdc	mA		Vdc	μA	μA	V(pk)	A(pk)	A(pk)	%/°C
IN6461	IN6469	5.6	25	50	5	3000	5000	9.0	56	167	0.04
IN6462	IN6470	6.5	20	50	6	2500	5000	11.0	46	137	0.04
IN6463	IN6471	13.0	5	10	12	500	1000	22.6	22	66	0.05
IN6464	IN6472	16.4	5	10	15	500	1000	26.5	19	57	0.06
IN6465	IN6473	27.0	2	5	24	50	100	41.4	12	36.5	.084
IN6466	IN6474	33.0	1	1	30.5	3	5	47.5	11	32	.093
IN6467	IN6475	43.7	1	1	40.3	2	5	63.5	8	24	.094
IN6468	IN6476	54.0	1	1	51.6	2	5	78.5	6	19	.096

- NOTE 1:** Applies to both 500W and 1500W series.
NOTE 2: Applies to only 500W series.
NOTE 3: Applies to only 1500W series.

TRANSIENT SUPPRESSORS

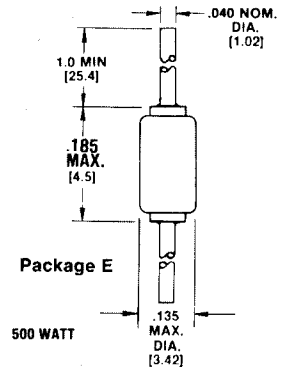


FIGURE 1 (NOTE 2)

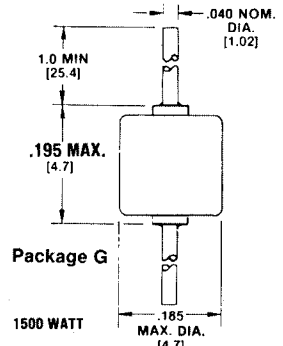


FIGURE 1A (NOTE 3)

MECHANICAL CHARACTERISTICS

- CASE: Hermetically sealed glass case.
- LEAD MATERIAL: Tinned copper or silver clad copper.
- MARKING: Body painted, alpha numeric.
- POLARITY: Cathode band.

1N6461 thru 1N6468 & 1N6469 thru 1N6476

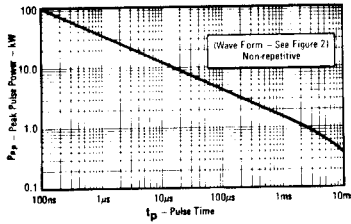


Figure 1. Pulse Time
1N6469 Series

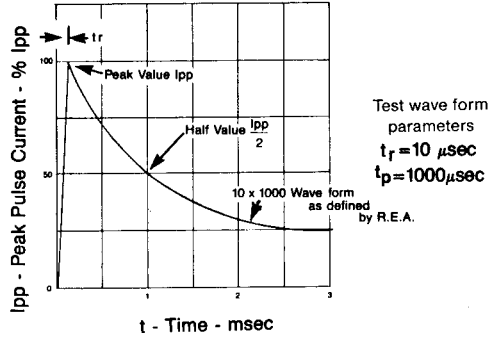


Figure 2. Current Impulse Waveform

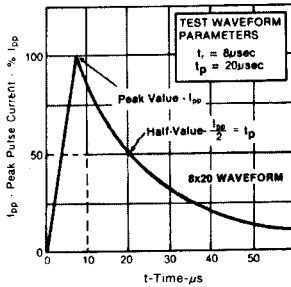


Figure 3. Current Impulse Waveform

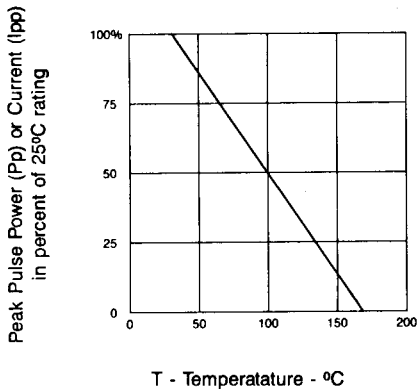


Figure 4. Derating Curve

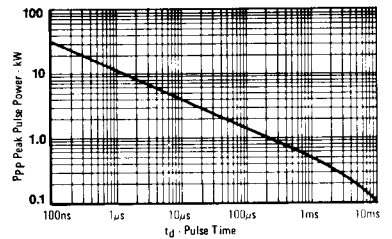


Figure 5. Pulse Waveform
1N6461 Series

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.