

ELECTRICAL CHARACTERISTICS @ 25° C Ambient Temperature

PROTEK PART NUMBER	DEVICE MARKING CODE	REVERSE STAND-OFF VOLTAGE V_{WM} VOLTS	BREAKDOWN VOLTAGE		MAXIMUM REVERSE LEAKAGE CURRENT @ V_{WM} I_D μA	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) $I_{PP} = 1A$ V_C VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) $I_{PP} = 5A$ V_C VOLTS	TYPICAL CAPACITANCE @ 0V, 1 MHz C pF	WORKING INVERSE BLOCKING VOLTAGE V_{WIB} VOLTS	INVERSE BLOCKING LEAKAGE CURRENT @ V_{WIB} I_R μA
			Min B_V VOLTS	@ I_T mA						
PLC 497	LC	1.0	1.3	1.0	20	4.5	7.7	2.5	75	1.0

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

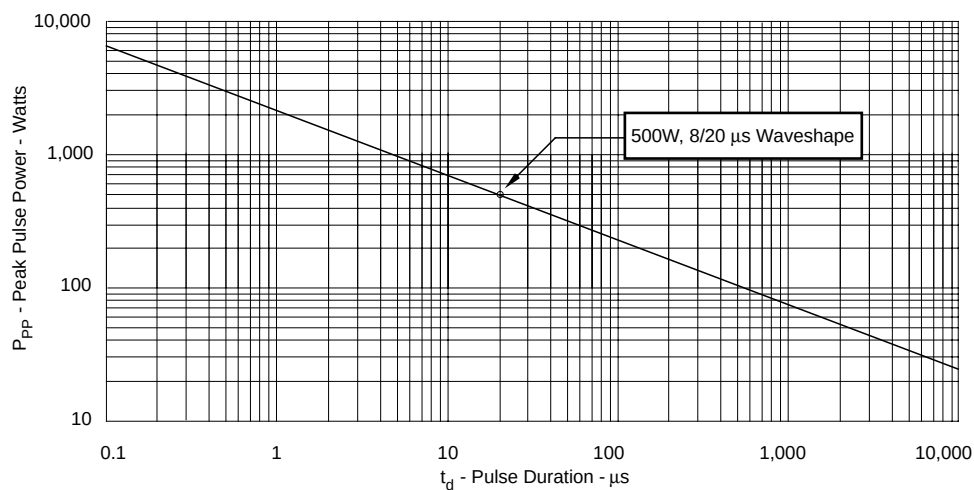


FIGURE 2
PULSE WAVE FORM

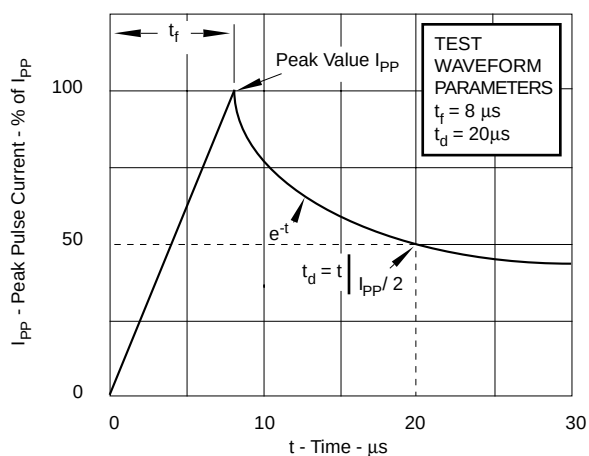
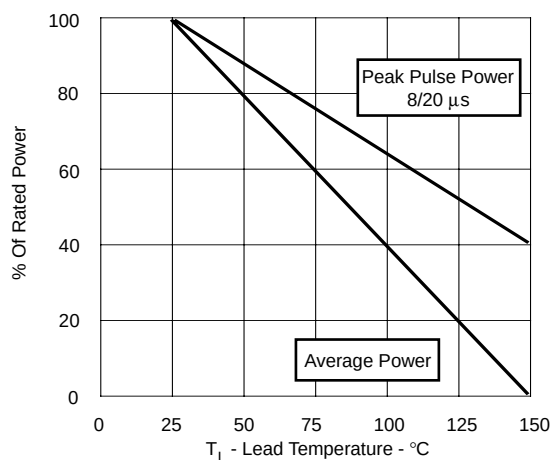
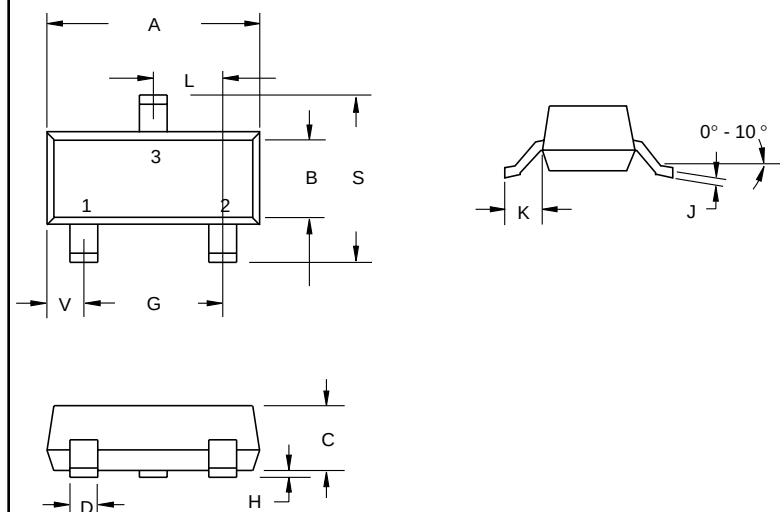


FIGURE 3
POWER DERATING CURVE



PACKAGE OUTLINES & DIMENSIONS

SOT-23 PACKAGE OUTLINE



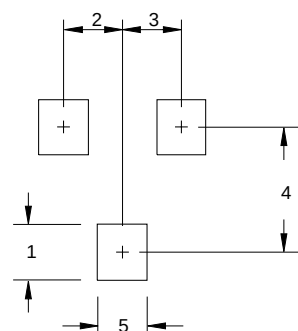
SOT-23 PACKAGE DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.80	3.04	0.1102	0.1197
B	1.20	1.40	0.0472	0.0551
C	0.89	1.11	0.0350	0.0440
D	0.37	0.50	0.0150	0.0200
G	1.78	2.04	0.0701	0.0807
H	0.013	0.100	0.0005	0.0040
J	0.085	0.177	0.0034	0.0070
K	0.45	0.60	0.0180	0.0236
L	0.89	1.02	0.0350	0.0401
S	2.10	2.50	0.0830	0.0984
V	0.45	0.60	0.0177	0.0236

NOTES:

1. Dimensioning and tolerance per ANSI Y 14.5M, 1985.
2. Controlling Dimension: Inches
3. Maximum lead thickness includes lead finish thickness.
4. Minimum lead thickness is the minimum thickness of the base material.
4. Pin 3 is the cathode (Unidirectional only).

SOLDER PAD LAYOUT



DIM	TYPICAL	
	Millimeters	Inches
1	0.85	0.033
2	0.95	0.037
3	0.95	0.037
4	2.00	0.079
5	0.85	0.033

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