

AC POWER LINE TVS COMPONENT

APPLICATIONS

- ✓ AC Power Mains
- ✓ Module Lightning Protection

IEC COMPATIBILITY (EN61000-4)

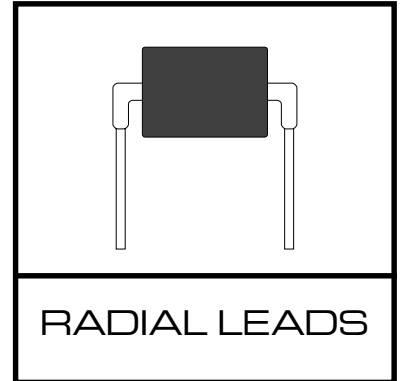
- ✓ 61000-4-5 (Power): 8/20 μ s - 1kA, L4 (Line-Line), 333A, L4 (Line-Ground)

FEATURES

- ✓ 4784 to 6920 Kilowatts Peak Pulse Power per Line (8/20 μ s)
- ✓ Glass Passivated Chip
- ✓ Bidirectional Configuration
- ✓ Easy Mounting to Printed Circuit Boards
- ✓ Available in Voltage Types Ranging From: 90V to 240VAC

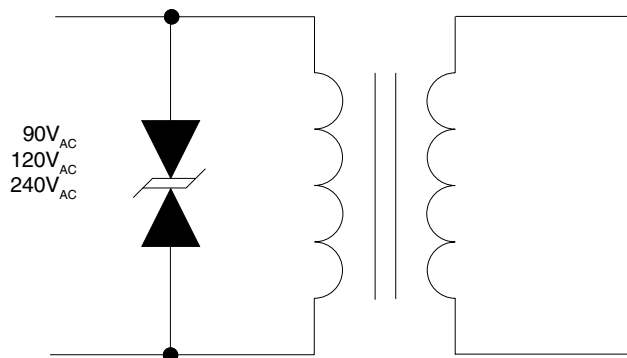
MECHANICAL CHARACTERISTICS

- ✓ Epoxy Case
- ✓ Weight 7.2 - 11.3 grams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ Marking: Logo & Device Marking Code



APPLICATION

AC POWER LINE PROTECTION



PAC-95 thru PAC-240

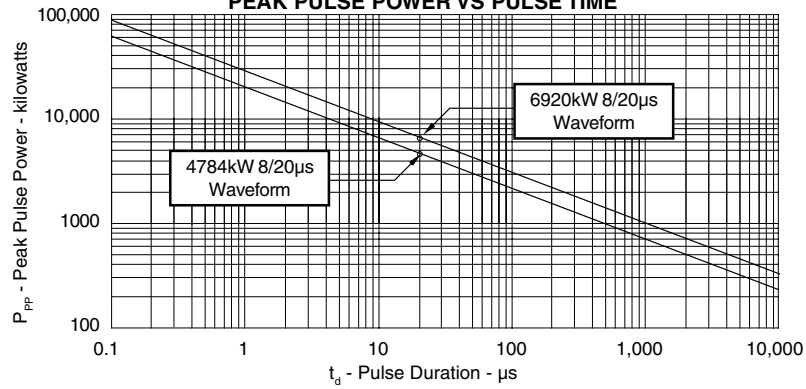
DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation ($t_p = 8/20\mu s$) - See Fig. 1	P_{PP}	4784 & 6920	kilowatts
Storage Temperature	T_{STG}	-40 to +125	°C
Operating Temperature	T_J	-40 to +125	°C

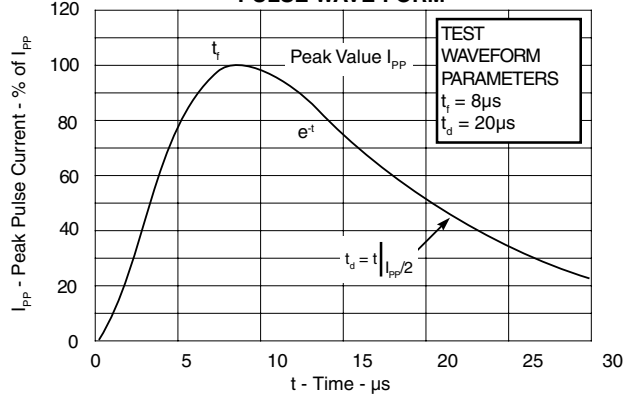
ELECTRICAL CHARACTERISTICS							
PART NUMBER	RATED STAND-OFF VOLTAGE		BREAKDOWN VOLTAGE		MAXIMUM LEAKAGE CURRENT @ V_{WM} I_D μA	MAXIMUM CLAMPING VOLTAGE @ 8/20 μs V_C @ I_{PP}	TEMPERATURE COEFFICIENT OF $V_{(BR)}$ $\theta V_{(BR)}$ %/°C
	V_{WM} VOLTS AC	V_{WM} VOLTS DC	MIN $V_{(BR)}$ VOLTS DC	@ I_T mA			
PAC-95	95	135	157	1	20	299V @ 16kA	0.1
PAC-130	130	202	214	1	20	378V @ 16kA	0.1
PAC-240	240	380	400	1	20	692V @ 10kA	0.1

GRAPHS

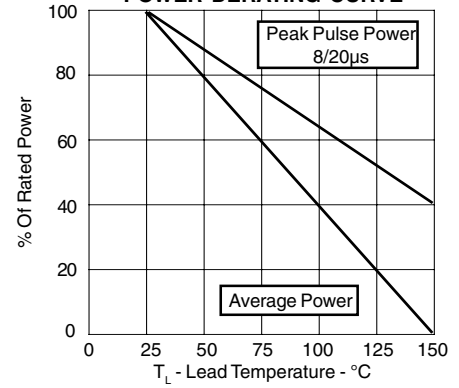
**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**



**FIGURE 2
PULSE WAVE FORM**



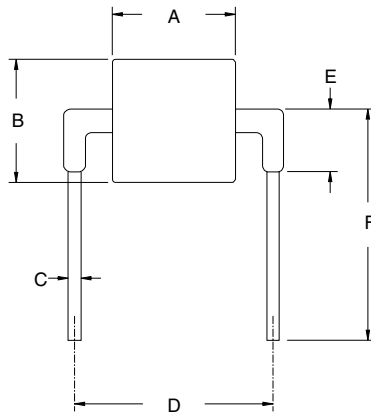
**FIGURE 3
POWER DERATING CURVE**



PAC-95 thru PAC-240

PACKAGE OUTLINE & DIMENSIONS

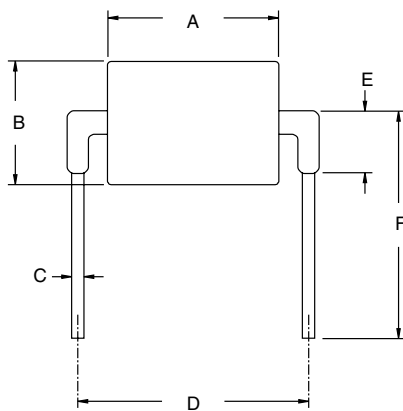
90VAC RADIAL LEAD PACKAGE OUTLINE



PACKAGE DIMENSIONS (90 VAC Device)

DIM	MILLIMETERS	INCHES
	(Nominal)	(Nominal)
A	12.5	0.49
B	12.45	0.49
C	1.27	0.05
D	20.1	0.79
E	6.35	0.25
F	23.37	0.92

130 & 240 VAC RADIAL LEAD PACKAGE OUTLINE



PACKAGE DIMENSIONS (130 & 240 VAC Devices)

DIM	MILLIMETERS	INCHES
	(Nominal)	(Nominal)
A	18.12	0.69
B	13.72	0.54
C	1.25	0.049
D	23.722 ± 1.16	0.934 ± 0.046
E	7.37	0.29
F	20.0	0.787

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