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LOW CAPACITANCE 600W TRANSIENT VOLTAGE SUPPRESSORS

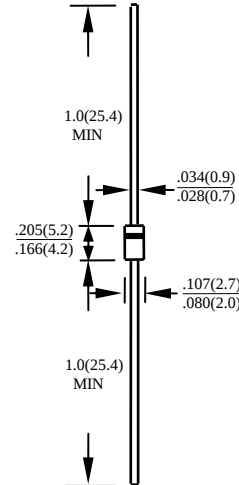
LC P6KE6.8 THRU LC P6KE350

FEATURES

- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- DIFFUSED JUNCTION
- LOW COST
- LOW JUNCTION CAPACITANCE

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO41, DIMENSIONS IN INCHES AND (MILLIMETERS)
- LEADS: SOLDERABLE PER MIL-STD-202,METHOD 208
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 0.34 GRAMS



ABSOLUTE MAXIMUM RATING

CHARACTERISTICS	SYMBOL	CONDITIONS	T.V.S.	DIODE	UNITS
STORAGE TEMPERATURE RANGE	T_{STG}		-40 ~ 150	-40 ~ 150	°C
JUNCTION TEMPERATURE	T_J		150	150	°C
PEAK SURGE REVERSE POWER	P_{RSM}	Non-repetitive 10/1000 μ S	400	-	W
REPETITIVE PEAK VOLTAGE	V_{RM}		170	600	V

ELECTRICAL CHARACTERISTICS (UNLESS OTHERWISE STATED $T_C = 25^\circ\text{C}$)

CHARACTERISTICS	SYMBOL	CONDITIONS	T.V.S.	DIODE	UNITS
LEAKAGE CURRENT	I_R	$V_R = V_{RM}$	Max. 5.0	Max. 5.0	μ A
REVERSE RECOVERY TIME	t_{rr}	IF/IR=0.1A/0.3A	-	Max. 500	nS
MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTAGE	C_j		20		pf
STORAGE TEMPERATURE RANGE	T_{STG}		- 55 TO + 150		°C
OPERATING TEMPERATURE RANGE	T_{OP}		- 55 TO + 150		°C

NOTE : EQUIVALENT CIRCUIT

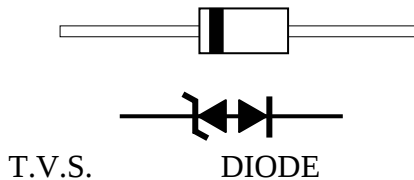
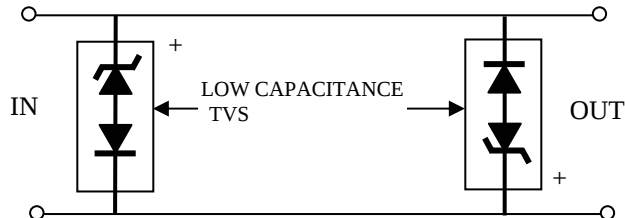


FIGURE 1 --AC Line Protection Application



APPLICATION NOTE : Devices must be used with two units in parallel, opposite in polarity as shown in circuit for AC Signal Line protection

RATINGS AND CHARACTERISTIC CURVES LC P6KE6.8 THRU LC P6KE350

FIG. 1 - PEAK PULSE POWER RATING CURVE

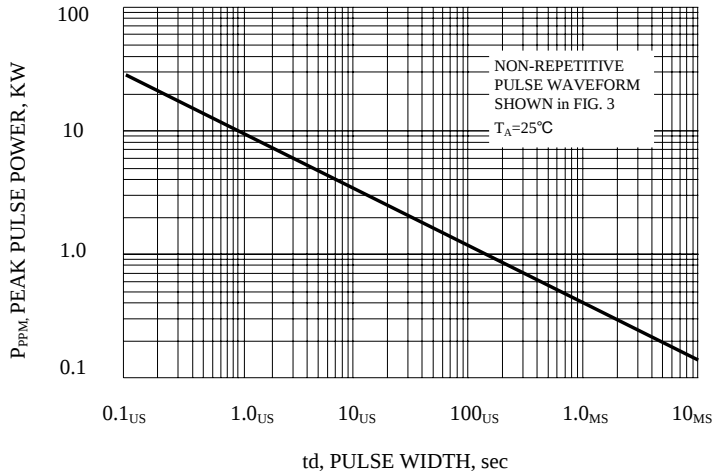


FIG. 2 - PULSE DERATING CURVE

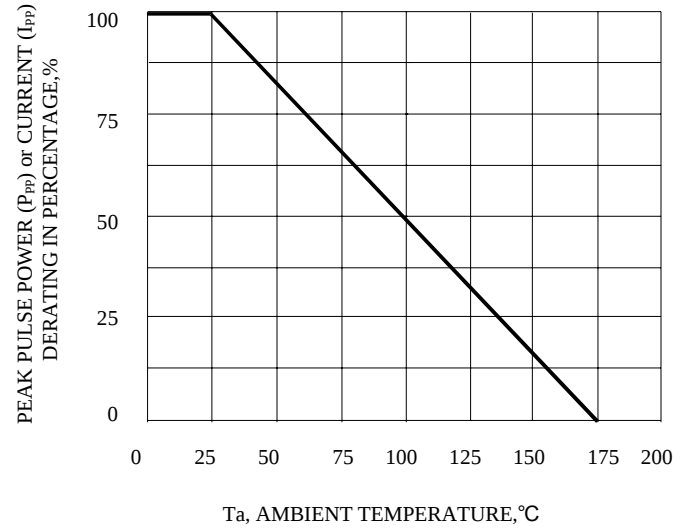


FIG. 3 - PULSE WAVEFORM

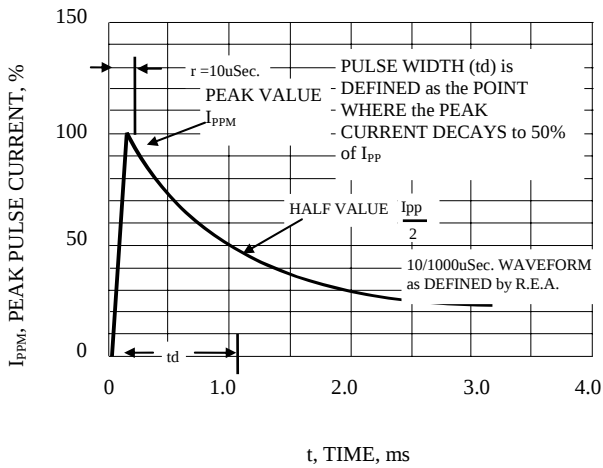


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

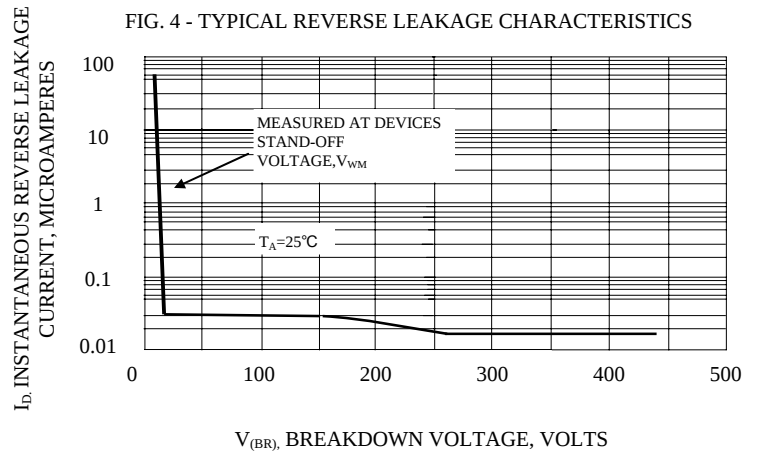


FIG. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT UNIDIRECTIONAL ONLY

