

ENHANCED LIGHTNING (SURGE) ARRESTER (E.L.A.)

Description:

ELA is specifically designed to protect sensitive electronic equipment from over voltage transients induced by lightning and other transient voltage events.

Application:

This device is used to limit the power bus voltage output of mission specific vehicles from induced transient voltage events and to protect the power inputs of all the electronic equipment from surges and transients.

NOTE: For best performance, it is advised to use close to the power source on a vehicle like alternator and any external power sources if applicable.

Function:

High Pulse Power MIL STD 1275 Transorb
+28V DC systems
Bi-Directional

The unit, chosen appropriate for the total load, must be connected in parallel to each of all 28 V DC power sources in a vehicle like alternators, battery banks, APUs, etc. as close as possible to provide efficient protection after each source.

25kW, 50kW, 75kW, 110kW, 140kW, 175kW, 200kW units available. Ask for details.

Protection:

100V Surge withstanding,
Capable of handling 130 msec single pulse up to 135A (for 5 pulses of 110A, 50 msec within 1 sec)

Technical Specifications:

TECHNICAL DETAILS					
SPEC	CONDITION	Symbol	Min	Max	Unit
Peak Pulse Power Dissipation	@25°C for 1ms	P _{pk}	---	110	kW
Steady State Power Dissipation	@25°C	P	---	40	W
Reverse Stand-Off Voltage		V _r		33	Volts
Reverse Leakage Current	@V _r	I _r	---	32	uA
Breakdown Voltage	@50mA	V _{BR}	36.9	40.59	Volts
Max. Clamping Current		I _{pp}		510	A
Max. Clamping Voltage	@I _{pp}	V _c		58.5	Volts
T _{clamping}	0 to V _{BR}	t	---	<10 x 10 ⁻⁸	Sec.
Operation-Storage Temperature		Temp	-55	150	°C

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics.
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangements additionally.
- 3- In no event shall the manufacturer be liable for any damages that may result from an accident or any other cause during operation of the user's units. Manufacturer assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information given in the datasheet.
- 4- In no event shall the manufacturer be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or the manufacturer.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of the manufacturer.