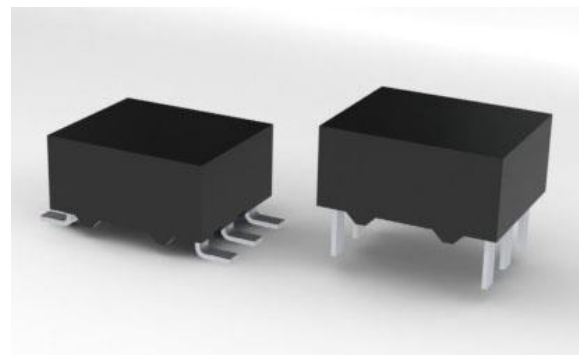


TECHNICAL DATA
DATASHEET 5453, Rev. A

High Power TVS Module (100KW / 1100A) for Lightning Strike Protection in Composite Frame Aircraft

Application:

- Lightning strike protection
- 28V system bus protection
- 100% tested to 1100A peak current
- Surface mount or Through Hole option
- High power dissipation and bi-directional capability
- Low cost package
- Through Hole Version – LSP52A-1100-60
- Surface Mount Version – LSP52B-1100-60



Protection Level:
DO-160 Section 22 Level 5 Waveform 5B Compliant

Electrical Characteristics:

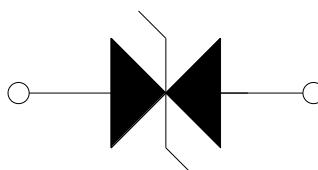
$T_j = 25^{\circ}\text{C}$ unless otherwise specified

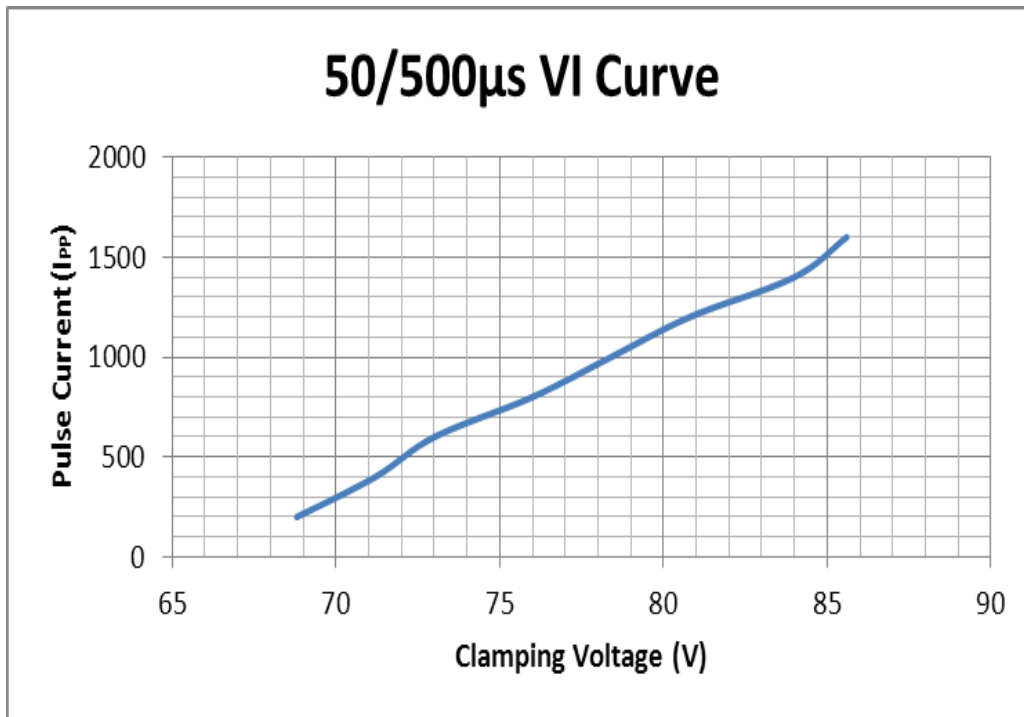
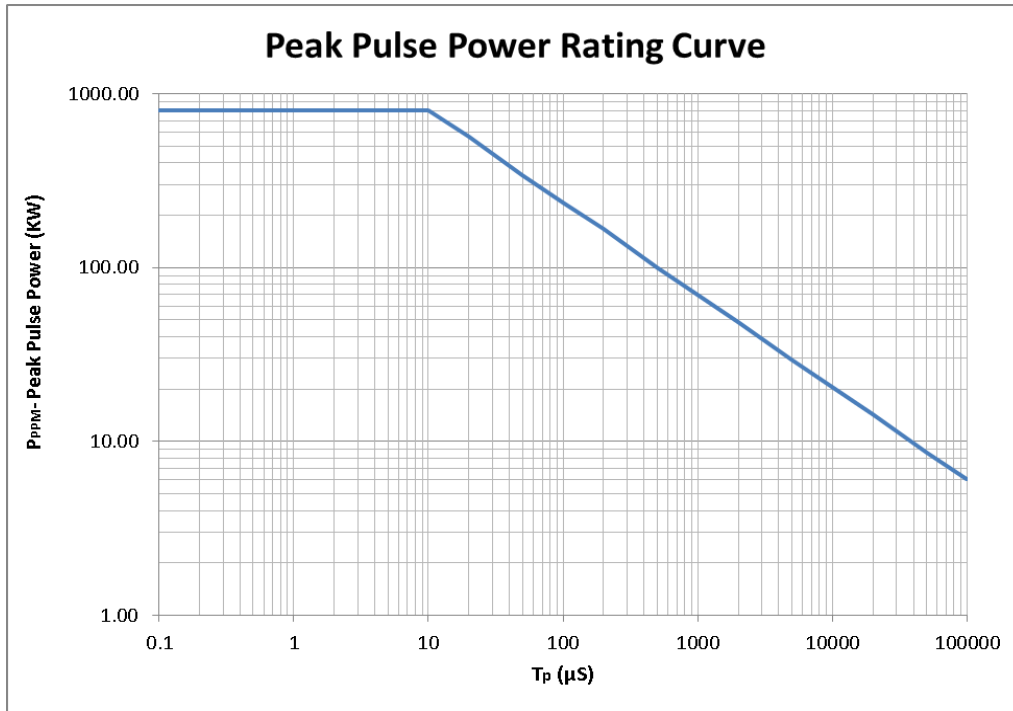
PARAMETER		SYMBOL	MIN	TYP	MAX	UNIT
Peak Pulse Power	50/500 μs waveform	P_{PPM}	-	100	-	KW
Peak Pulse Current	50/500 μs waveform	I_{PPM}	1100	-	-	A
Clamp Voltage @ I_{PPM}	50/500 μs waveform	V_{CL}	-	86	90	V
Reverse Standoff Voltage		V_{RWM}	52	-	-	V
Reverse Leakage Current @ V_{RWM}		I_R	-	-	30	μA
Breakdown Voltage @ $I_T = 5\text{mA}$		V_{BR}	60	64	-	V

Package Characteristics

Recommended Operating Temperature Range	T_{OP}	- 40	-	85	$^{\circ}\text{C}$
Junction Temperature Range	T_J	-40	-	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55	-	150	$^{\circ}\text{C}$
Module Weight	M	-	-	8.5	gms

Electrical Schematic





SENSITRON

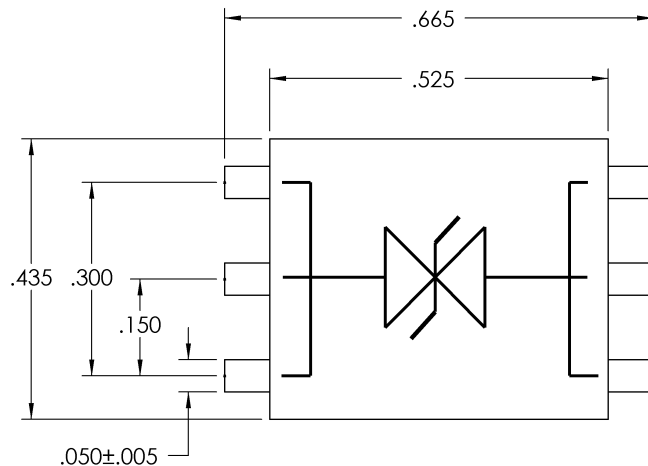
SEMICONDUCTOR

LSP52A-1100-60
LSP52B-1100-60

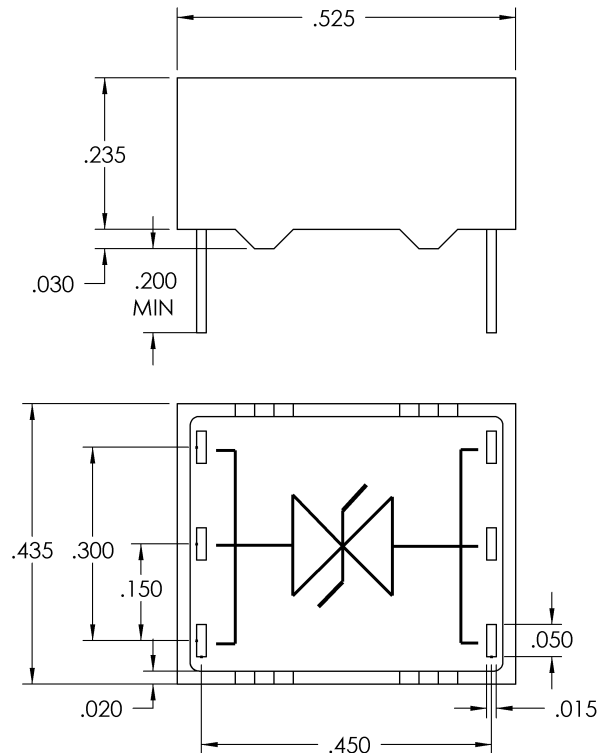
TECHNICAL DATA
DATSHEET 5453, Rev. A

Mechanical Drawing

LSP52B-1100-60
Package: LSP52-B



LSP52A-1100-60
Package: LSP52-A



TOLERANCE UNLESS OTHERWISE NOTED = ±.010

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