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Fast Recovery High Voltage Diode Assemblies ▶

- Free wheeling diodes for HTS solid-state switches in combination with inductive load
- Soft recovery characteristics ● High peak current capability ● Short recovery time

Model [sorted by housing dimensions]	Description / Comment ● Preferred stock type ○ Stock may be limited X Not for new development	Dimensions	Voltage	Peak Current
		[mm ³]	[kV]	[A]
FDA 60-180	● Especially for HTS 61-40, HTS 61-240-SI and 61-160-FI	78 x 76 x 25	6	1800
FDA 60-240	● Especially for HTS 61-40, HTS 61-240-SI and 61-160-FI	102 x 76 x 25	6	2400
FDA 100-75	●	84 x 35 x 30	10	750
FDA 100-150	●	84 x 35 x 30	10	1500
FDA 160-75	●	84 x 35 x 30	16	750
FDA 160-150	●	84 x 35 x 30	16	1500
FDA 200-75	●	101 x 35 x 30	20	750
FDA 200-150	●	101 x 35 x 30	20	1500
FDA 240-75	●	116 x 35 x 30	24	750
FDA 240-150	●	116 x 35 x 30	24	1500
FDA 300-75	●	141 x 35 x 30	30	750
FDA 300-150	●	141 x 35 x 30	30	1500
FDA 320-75	●	152 x 35 x 30	32	750
FDA 320-150	●	152 x 35 x 30	32	1500
FDA 640-75	●	300 x 35 x 30	64	750
FDA 640-150	●	300 x 35 x 30	64	1500
FDA 800-75	●	370 x 35 x 30	80	750
FDA 800-150	●	370 x 35 x 30	80	1500
FDA 100-300	●	101 x 70 x 35	16	3000
FDA 160-300	●	101 x 70 x 35	16	3000
FDA 200-300	●	101 x 70 x 35	20	3000
FDA 240-300	●	116 x 70 x 35	24	3000
FDA 320-300	●	152 x 70 x 35	32	3000
FDA 640-300	●	300 x 70 x 35	64	3000
FDA 800-300	●	370 x 70 x 35	80	3000

Option ①	Description
PT-HV	Pigtails for HV Connection: Flexible leads with cable lugs. Not recommended in extremely fast circuits.
UL94	Flame Retardant Casting Resin: Casting resin according to UL-94-V0. Minimum order quantity required. ②
CF	Non-Isolated Cooling Fins: Standard sizes in categories I to VII according to model. Nickel plated copper 0.5 mm, fin height 35 mm. For air and liquid cooling (e.g. Galden® or oil).
CF-1	Non-Isolated Cooling Fins d=1mm: Nickel plated copper 1.0 mm instead of 0.5 mm. The Max. Power Dissipation will be increased by ~80 %. For air and liquid cooling (e.g. Galden® or oil).
CF-X2	Non-Isolated Cooling Fins enlarged by x2: Fin area enlarged by factor 2. Not relevant in connection with liquid cooling.
CF-X3	Non-Isolated Cooling Fins enlarged by x3: Fin area enlarged by factor 3. Not relevant in connection with liquid cooling and forced air convection.
CF-CS	Non-Isolated Cooling Fins with customized shape: Individual shape to meet specific OEM requirements. ②
CF-LC	Non-isolated Cooling Fins optimized for liquid cooling: Double fins, nickel plated copper, 0.5 mm thickness., height 20 mm.
GCF	Grounded Cooling Flange: Cooling by a grounded base plate made of nickel plated copper. For high power applications. Increased coupling capacitance. Isolation voltage up to 40 kVDC.
GCF-X2	Grounded Cooling Flange, Max. Continuous Power Dissipation increased by x2: Thermal resistance "Switch to Flange" reduced for twice the power capability. ②
GCF-W	Water Cooler for Grounded Cooling Flange: Flat water cooling plate attached to the grounded cooling flange GCF. With water inlet and outlet.
DLC	Direct Liquid Cooling: Internal liquid channel in direct contact with the power semiconductors. Very compact cooling solution for medium power. Galden® and non-conductive liquids only. ②
HI-REL	High Reliability / MIL Versions: Available on request. ②

① New option code: Data sheets may differ from this coding system (especially older ones) and do not indicate all possible options as per above table. ② Please consult factory for detailed information.

Further technical information, detailed data sheets and mechanical drawings are available on request. All data and specifications subject to change without notice. Nov. 2001