



# Applied Pulsed Power™

A Division of Silicon Power Corporation

280 Great Valley Parkway  
Malvern, PA 19355-1308

Phone: 610-407-4700  
www.appliedpulsedpower.com

## Model DFB3015 High Speed Pulsed Power Diode

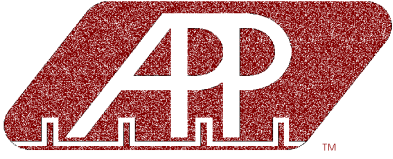
The DFB series diodes are designed for pulsed power applications capable of handling high peak currents with fast soft reverse recovery. These diodes come in different current and voltage ratings.

### Operational Ratings

Parameter	Value	Units
Peak Repetitive Reverse Voltage ( $V_{RRM}$ )	15	kV
DC Blocking Voltage ( $V_{RWM}$ )	13	kV
Peak Repetitive Current ( $I_{FSM}$ , $t_{PW} \leq 10$ usec)	1500	Amps
Maximum On-State Current ( $I_{F(AV)}$ )	4.8	Amps
Operating Temperature Range	0 to 60	°C
Reverse Recovery Time ( $t_{RR}$ , $I_F=50A$ )	85	ns
Avalanche Energy ( $E_{AVL}$ )	380	mJ
Leakage Current ( $I_R$ , $V_R=12kV$ )	0.5	mA
Capacitance	180	pF
Forward Voltage Drop ( $V_F$ , $I = 500 A$ )	85	V

### Part Number Selection Guide

Part Number	Maximum DC Voltage Rating	Peak Off-State Voltage Rating	Capacitance	Forward Voltage Drop ( $I=500A$ )
DFB3008	8kV	7kV	320pF	55V
DFB3009	9kV	8kV	275pF	60V
DFB3010	10kV	9kV	250pF	65V
DFB3012	12kV	10kV	220pF	70V
DFB3013	13kV	11kV	200pF	75V
DFB3014	14kV	12kV	190pF	80V
DFB3015	15kV	13kV	180pF	85V

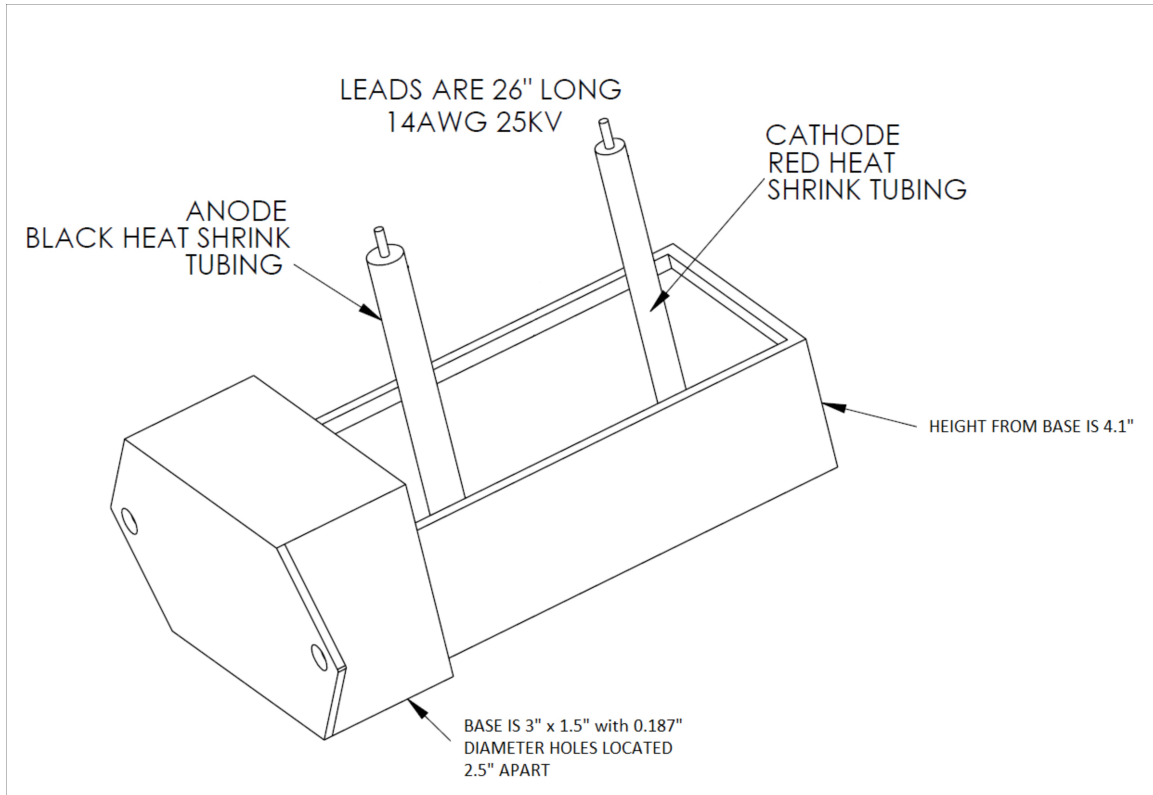


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Standard Package Design



Alternative package has 0.156" mounting holes 4.5" apart on plane with HV leads. The overall dimensions are then 4.875" x 1.8" x 1"