

FFSH10120A-F085

ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V_{RRM}	Peak Repetitive Reverse Voltage	1200	V	
E_{AS}	Single Pulse Avalanche Energy (Note 1)	100	mJ	
I_F	Continuous Rectified Forward Current @ $T_C < 158^\circ\text{C}$	10	A	
	Continuous Rectified Forward Current @ $T_C < 135^\circ\text{C}$	17		
$I_{F, Max}$	Non-Repetitive Peak Forward Surge Current	$T_C = 25^\circ\text{C}, 10 \mu\text{s}$	850	A
		$T_C = 150^\circ\text{C}, 10 \mu\text{s}$	800	A
$I_{F, SM}$	Non-Repetitive Forward Surge Current	Half-Sine Pulse, $t_p = 8.3 \text{ ms}$	90	A
$I_{F, RM}$	Repetitive Forward Surge Current	Half-Sine Pulse, $t_p = 8.3 \text{ ms}$	35	A
P_{tot}	Power Dissipation	$T_C = 25^\circ\text{C}$	193	W
		$T_C = 150^\circ\text{C}$	32	W
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to +175	$^\circ\text{C}$	

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TYPICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

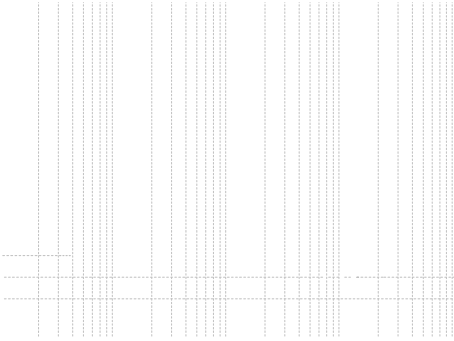
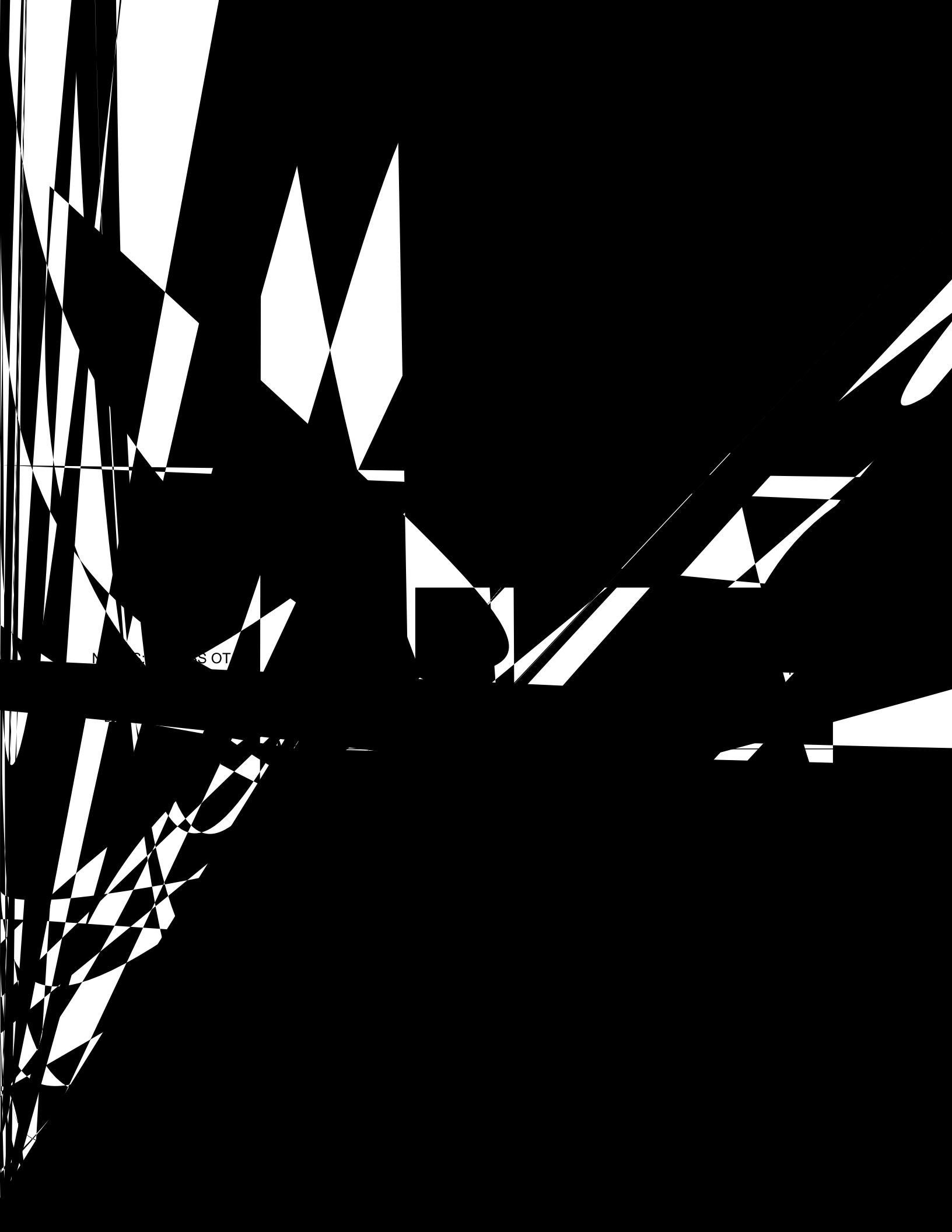


Figure 7. Capacitance vs. Reverse Voltage

Figure 8. Capacitance Stored Energy

Figure 9. Junction-to-Case Transient Thermal Response Curve



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