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High Voltage Silicon Rectifier

Fast Recovery, Miniature
 HA10-100, HVX10-100

FEATURES:

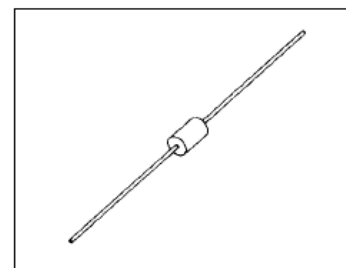
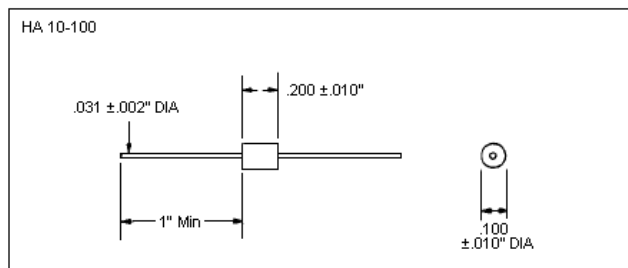
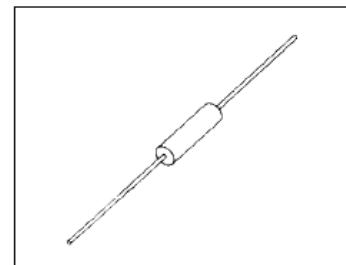
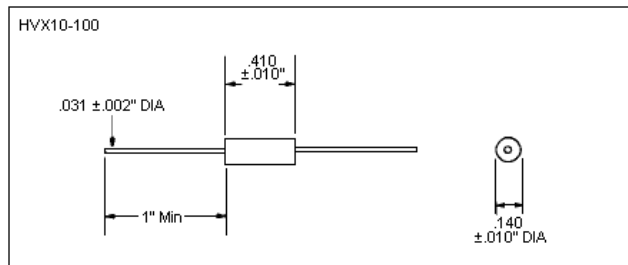
- PIV: 1kV to 10kV
- 250 nS Reverse Recovery
- High Surge Current Ratings
- Low Reverse Leakage
- Corona Free

The HVX/HA silicon rectifier series combine a medium rectified current capability in a miniature package for commercial, industrial and military applications.

ELECTRICAL SPECIFICATIONS at 25°C unless otherwise noted							MAXIMUM RATINGS					
Part Number *		Peak Inverse Voltage	Maximum Reverse Current		Max Forward Voltage @ 100mA	Reverse Recovery Time **	Maximum Average Rectified Current			Maximum Recurrent Peak Current	One Cycle Surge Current	
		PIV	$I_R @ V_{RWM}$		VF	T_{RR}	I_O			I_F	I_{FSM}	
		V	$T_A=25^\circ C$ μA	$T_A=100^\circ C$ μA	V	nS	$T_A=50^\circ C$	$T_A=100^\circ C$	$T_A=125^\circ C$	A	A	
		mA										
HVX10	HA10	1000	1	20	5	250	250	125	62.5	2.5	14	
HVX15	HA15	1500	1	20	5	250	250	125	62.5	2.5	14	
HVX20	HA20	2000	1	20	5	250	250	125	62.5	2.5	14	
HVX25	HA25	2500	1	20	5	250	250	125	62.5	2.5	14	
HVX30	HA30	3000	1	20	5	250	250	125	62.5	2.5	14	
HVX40	HA40	4000	1	20	12	250	100	50	25	1.0	4	
HVX50	HA50	5000	1	20	12	250	100	50	25	1.0	4	
HVX75	HA75	7500	1	20	12	250	100	50	25	1.0	4	
HVX100	HA100	10000	1	20	12	250	100	50	25	1.0	4	

*Operation and testing of devices over 10,000V/inch may require re-encapsulation or immersion in a suitable dielectric material.

** $I_F=0.5A$, $I_R=1.0A$, $I_{rec}=0.25A$, measured on discretes prior to assembly



Operating and Storage Temperature.....-65°C to +150°C

Specifications subject to change without notice to ensure a better product
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