



180 Lafayette Road  
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## Bridge Assembly

Single Phase, Ultra Super Fast Recovery  
 SDA165AHF to SDA165HHF Series

### FEATURES

- Low Reverse Leakage
- PCB Mounting
- High Forward Surge Capability
- Glass Passivated Diodes Utilized

### QUICK REFERENCE DATA

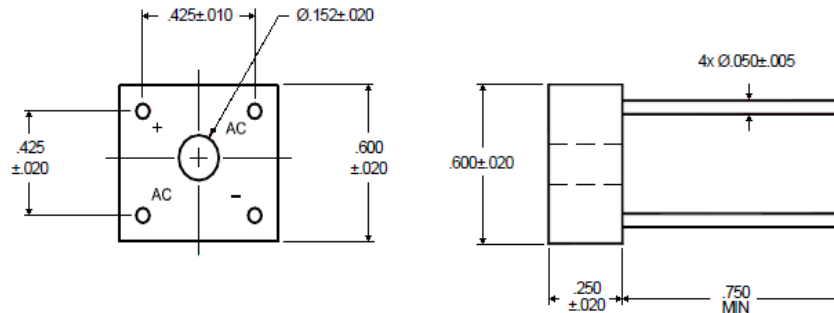
- Peak Inverse Voltage: 50V to 800V
- Reverse Recovery Time: 35 nSEC
- Average Forward Current: 10 AMP
- Reverse Leakage Current: 10  $\mu$ A

ELECTRICAL CHARACTERISTICS						MAX RATINGS		
Type	Maximum Reverse Voltage	Maximum Reverse Current Per Leg		Maximum Reverse Recovery Time	Maximum Forward Voltage		Average Rectified Forward Current	1 Cycle Surge Current
	$V_{RM}$	$I_R @ V_{RM}$		$T_{rr} *1$	$V_{FM} *2$		$I_o$	$I_{FSM}$
	$T_C=25^\circ C$	$T_C=25^\circ C$	$T_C=100^\circ C$	$T_A=25^\circ C$	$T_A=25^\circ C$		$T_C=55^\circ C$	$T_C=25^\circ C$
	Volts	$\mu A$	$\mu A$	nS	Volts	Amps	Amps	Amps
SDA165AHF	50	5.0	200	35	0.95	6.0	10	125
SDA165BHF	100	5.0	200	35	0.95	6.0	10	125
SDA165CHF	150	5.0	200	35	0.95	6.0	10	125
SDA165DHF	200	10.0	1000	35	1.05	3.0	6	50
SDA165EHF	300	10.0	1000	35	1.05	3.0	6	50
SDA165FHF	400	10.0	250	35	1.85	3.0	6	75
SDA165GHF	600	10.0	250	35	1.85	3.0	6	75
SDA165HHF	800	10.0	250	35	2.30	3.0	6	75

\*1)  $I_F = .5A$ ,  $I_R = 1A$ ,  $I_{rec} = .25A$ , measured on discrete rectifiers prior to assembly

\*2) Pulse Width = 300uSEC

### MECHANICAL CHARACTERISTICS



### THERMAL CHARACTERISTICS

Operating and Storage Temperature.....	-55°C to +150°C
Maximum Thermal Resistance.....	5.0°C/W Typical

Specifications subject to change to ensure a better part  
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