



180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
FX: 603-964-3168
WWW.PDEELECTRONICS.COM

Bridge Assembly

Single Phase, Ultrafast Recovery
SDA165DUF to SDA165GUF Series

FEATURES

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

QUICK REFERENCE DATA

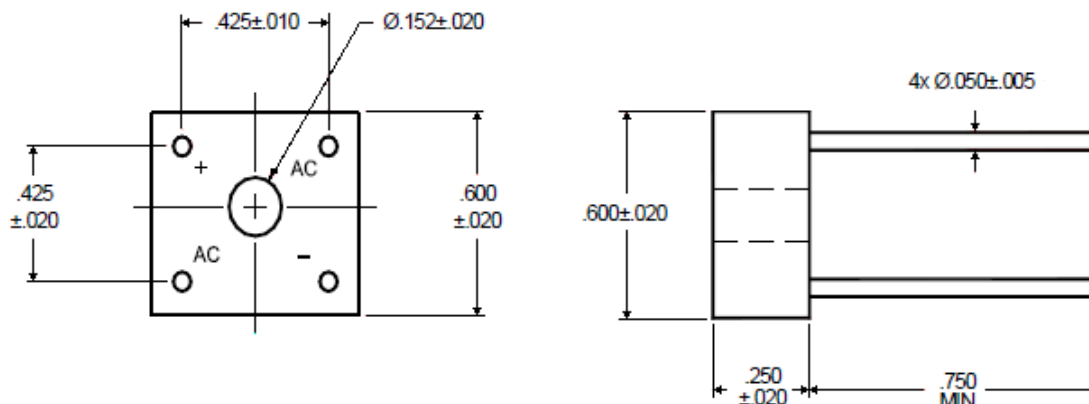
- Peak Inverse Voltage: 400V to 1000V
- Reverse Recovery Time: ≤ 70 nSEC
- Average Forward Current: 10 AMP
- Reverse Leakage Current: $5\mu\text{A}$

ELECTRICAL CHARACTERISTICS						MAX RATINGS	
Type	Maximum Reverse Voltage V_{RM}	Maximum Reverse Current Per Leg $I_R @ V_{RM}$		Maximum Reverse Recovery Time $T_{rr} *1$	Maximum Forward Voltage $V_{FM} *2$		Average Rectified Forward Current I_o
	$T_C=25^\circ\text{C}$	$T_C=25^\circ\text{C}$	$T_C=100^\circ\text{C}$	$T_A=25^\circ\text{C}$	$T_A=25^\circ\text{C}$		$T_C=55^\circ\text{C}$
	Volts	μA	μA	nS	Volts	Amps	Amps
SDA165DUF	400	10	1000	60	1.2	3.0	10
SDA165EUF	600	10	1000	60	1.2	3.0	10
SDA165FUF	800	10	250	70	1.4	3.0	10
SDA165GUF	1000	10	250	70	1.4	3.0	10
							75

*1) $I_F = .5\text{A}$, $I_R = 1\text{A}$, $I_{rec} = .25\text{A}$, 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
PD&E Electronics 180 Lafayette Rd. North Hampton, NH 03862
Ph: (603) 964-3165 Fx: (603) 964-3168 Web: WWW.PDEELECTRONICS.COM