



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

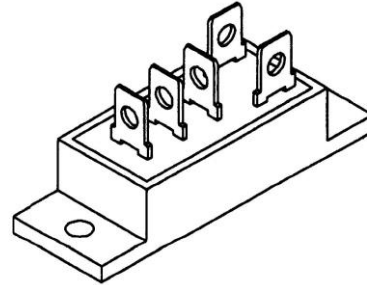
Full Wave Bridge Rectifier Assembly

Three Phase
 SDA167HC SERIES

REV A

FEATURES

- Ultra Fast Recovery Time: 70 nS
- Average Output Current: 33A
- Low Reverse Leakage
- Glass Passivated Rectifiers
- Aluminum Base for Heatsinking
- PDE MX Screening Available



ABSOLUTE MAXIMUM RATINGS

Device Part Number	Peak Repetitive Reverse And DC Blocking Voltage	Average Rectified Forward Current ^(1,2) T _C = 55°C	Peak Surge Current ⁽³⁾ T _A = 25°C
	V _{RRM} V _{RWM} V _R	I _O	I _{FSM}
	Volts	Amps	Amps
SDA167HCEUF	600	33	250
SDA167HCFUF	800	33	250
SDA167HCGUF	1000	33	250

ELECTRICAL CHARACTERISTICS @ T_A = 25°C unless specified

Device Part Number	Minimum Reverse Breakdown Voltage I _R = 100 uA	Instantaneous Forward Voltage Drop ⁽⁴⁾		Reverse Leakage Current ⁽⁴⁾ @ Rated V _R	Reverse Leakage Current ⁽⁴⁾ @ Rated V _R , T _A = 100°C	Reverse Recovery Time ⁽⁵⁾
		@ I _F =3A	@ I _F =9A			
	BV	V _{F1}	V _{F2}	I _{R1}	I _{R2}	T _{rr}
	Volts	Volts		µA	uA	nS
SDA167HCEUF	620	1.42	1.80	20	750	75
SDA167HCFUF	820	1.42	1.80	20	750	75
SDA167HCGUF	1020	1.42	1.80	20	750	75

- 1) Derated linearly at 0.35 A/°C for T_C>55°C, Applies to total bridge
- 2) Resistive load, 60 Hz, Sine Wave
- 3) t_p=8.3mS, half sine wave. Applies to total bridge
- 4) 300µS Pulse, duty cycle<2%
- 5) I_F=.5A, I_R=1A, I_{RR}=.25A, tested on discretes prior to assembly

Specifications subject to change without notice.

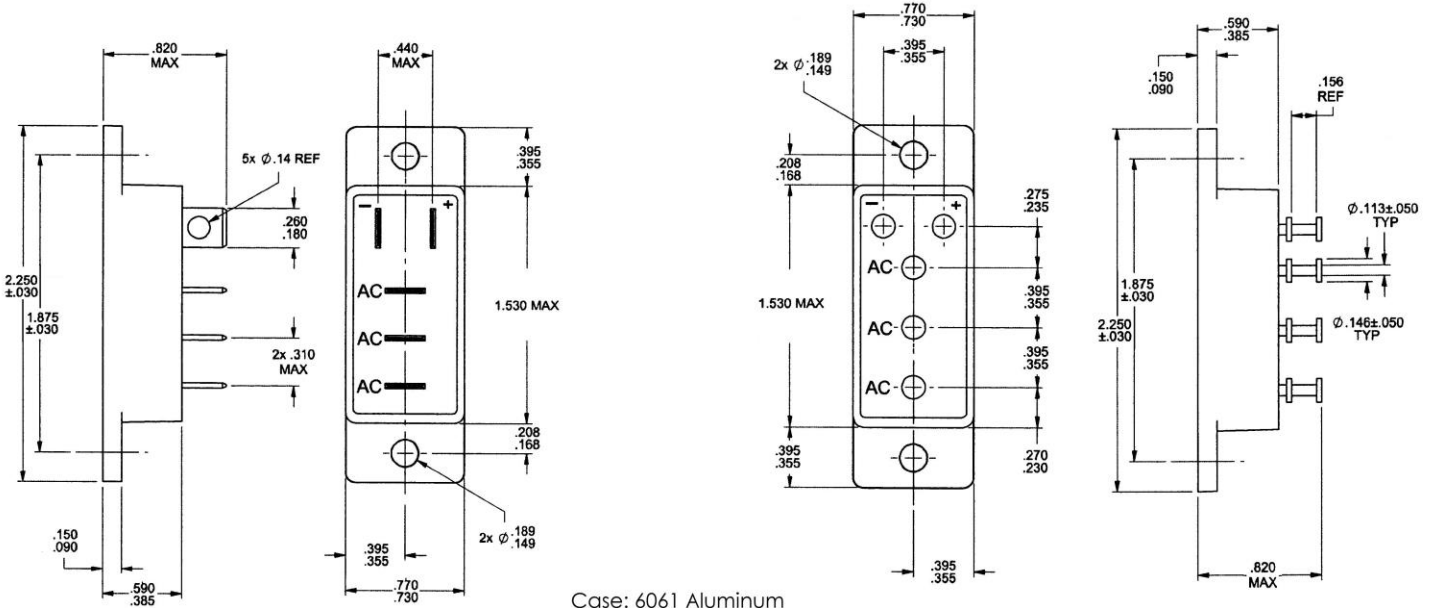
PD&E Electronics 180 Lafayette Rd. North Hampton, NH 03862
 Ph: (603) 964-3165 Fx: (603) 964-3168 Web: WWW.PDEELECTRONICS.COM



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

Full Wave Bridge Rectifier Assembly
 Three Phase
 SDA167HC SERIES REV A

MECHANICAL CHARACTERISTICS



Case: 6061 Aluminum

Finish: Black Anodize

Marking: + Red Dot
 - Brown Dot
 AC Yellow Dot

Branding: Manufacturer
 Part Number
 Date Code

For turret terminal
 add suffix T to part number
 ex. SDA167HCEUFT

ISOLATION RESISTANCE

R _{ISO} (all terminals to case @ 1500V).....	100 MΩ
---	--------

THERMAL CHARACTERISTICS

Operating and Storage Temperature.....	-55°C to +150°C
Maximum Thermal Resistance (Junction to Case).....	0.85°C/W