

## Short Form Data Sheet

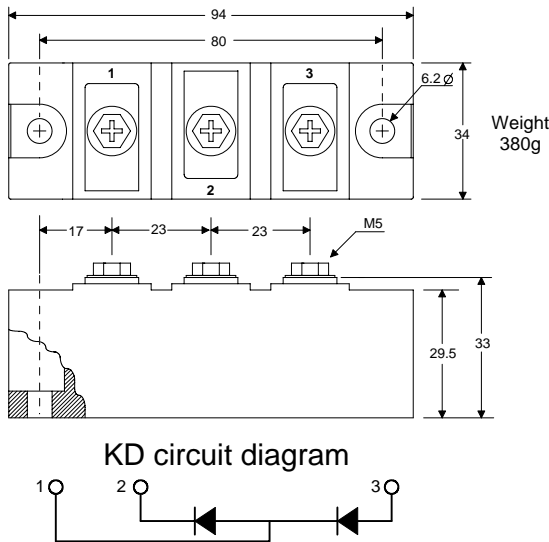
Part number scheme

**PS KD 200 N 16 KNX**  
1 2 3 4 5 6

- 1) Power Semiconductors initials
- 2) Circuit designation
- 3) Series number
- 4) Designates standard recovery time
- 5) Voltage Multiplier (example: 16 x 100 = 1600)
- 6) Proprietary suffix

### Features:

- ✓ All diffused silicone.
- ✓ Thick copper base plate.
- ✓ Isolated cooling, rated up to 3500 V<sub>RMS</sub>
- ✓ Heat sink grounded.



### Voltage

Parameter	Symbol	Rating	Units
Maximum Repetitive Reverse Voltage <small>Notes: 1, 3, 4, 5, 6</small>	V <sub>RRM</sub>	1200 ~ 1800	Volts
Maximum non repetitive Surge of Reverse Voltage <small>Notes: 2, 3, 4, 5, 6</small>	V <sub>RSM</sub>	V <sub>RRM</sub> + 100	Volts
Maximum Non Repetitive Forward Voltage <small>Notes: 2</small>	V <sub>FM</sub> @ I <sub>FM</sub>	1.4 @ 500	V @ A
<small>Note 1: T<sub>J</sub> 25°C. Note 2: T<sub>J</sub> 125°C. Note 3: Measured at the peak of the sine wave, Note 4: Below 0°C derate V<sub>RRM</sub> 10%. Note 5: V<sub>RRM</sub> have I<sub>RRM</sub> of up to 20mA. Note 6: V<sub>RR</sub> has typical I<sub>DR</sub>, I<sub>RR</sub> of 2~7mA. Note 7: For DC applications derate V<sub>RRM</sub> 45%.</small>			
Specifying voltage:	1400V, PSKD200N14 1200V, PSKD200N12	1800V, PSKD200N18 Above 1800V inquire for availability.	

### Amperage

Parameter	Symbol	Rating	Units
Maximum, Average Current <small>Notes: 3, 4</small>	I <sub>F(AVE)</sub>	200	Amperes
Maximum, RMS Current <small>Notes: 3, 4</small>	I <sub>F(RMS)</sub>	314	Amperes
Maximum non repetitive Surge Current with no reverse voltage reappplied. <small>Notes: 2, 4</small>	I <sub>FSM</sub> 0%V <sub>RRM</sub>	4	kA
I <sub>RR</sub> = Typical Repetitive, Reverse, Current. <small>Note: 1</small>	I <sub>RR</sub>	3 ~ 7	mA
I <sub>RRM</sub> = Maximum (threshold), Repetitive, Reverse, Current. <small>Note:1</small>	I <sub>RRM</sub>	30	mA
Fuse's absolute maximum I <sup>2</sup> t with no reverse voltage reappplied <small>Note: 2, 4</small>	I <sup>2</sup> t, 0% V <sub>RR</sub>	5.8	kA
Fuse's absolute maximum I <sup>2</sup> t with 100% reverse voltage reappplied <small>Note: 2, 4</small>	I <sup>2</sup> t, 100% V <sub>RR</sub>	4.1	kA
<small>Note 1: T<sub>J</sub> 25°C. Note 2: T<sub>J</sub> 125°C. Note 3: T<sub>CASE</sub> 55°C air cooled. Note 4: 180° conduction, 60Hz sine wave.</small>			

### Thermal & Weight

Parameter	Symbol	Rating	Units
Operating Temperature Range	T <sub>J</sub>	-40° ~ 180°	°Celsius
Maximum Thermal resistance, Junction to Case <small>Notes:1, 2</small>	R <sub>th-J-C</sub>	0.15	°C/W
Maximum Thermal resistance, Case to Heat Sink <small>Notes: 1, 2</small>	R <sub>th-C-hs</sub>	0.1	°C/W
Weight		380	Grams
		14.4	oz.

Note 1: Mounting surfaces flat and greased Note 2: 180° conduction, 60Hz sine wave.