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# WESTCODE SEMICONDUCTORS



## Stud-Base Silicon Rectifier Diodes Type PCN/PCR075 75 amperes average: up to 1600 volts V<sub>RRM</sub>

#### RATINGS Maximum values at 175°C Tj unless stated otherwise

RATING	CONDITIONS	SYMBOL	
Average forward current RMS current DC forward current Peak one-cycle surge (non repetitive) Maximum permissible surge energy Case operating temperature	Half sine wave $135^{\circ}C$ case temperature8.3 ms duration $\begin{cases} 60\% V_{RRM} \text{ re-applied} \\ V_{R} \leq 10 \text{ volts} \end{cases}$ 8.3 ms duration $\begin{cases} 60\% V_{RRM} \text{ re-applied} \\ V_{R} \leq 10 \text{ volts} \end{cases}$ 3 ms duration $V_{R} \leq 10 \text{ volts} \end{cases}$	<sub>F(AV)</sub>   <sub>F</sub> (RMS)   <sub>F</sub> '   <sub>FSM(1)</sub>   <sub>FSM(2)</sub>   <sup>2</sup> t(1)   <sup>2</sup> t(2) T <sub>C</sub> T <sub>stg</sub>	75A 118A 118A 1378A 1584A 8196A <sup>2</sup> s 10839A <sup>2</sup> s 8284A <sup>2</sup> s ~55, +175°C ~55, +175°C

#### CHARACTERISTICS Maximum values at 175°C Tj unless stated otherwise

CHARACTERISTIC	CONDITIONS	SYMBOL	
Peak forward voltage drop Forward conduction threshold voltage Forward conduction slope resistance Peak reverse current Thermal resistance junction to case for a diode with a maximum forward volt- drop characteristic Thermal resistance case to heatsink	At 388A, I <sub>FM</sub> At V <sub>RRM</sub> DC and 180° sine wave 120° rectangular wave	V <sub>FM</sub> V <sub>o</sub> r I <sub>RBM</sub> R <sub>th</sub> (j-c) R <sub>th</sub> (c-hs)	1.51V 0,925V 1.5mΩ 10mA 0.44°C/W 0.58°C/W 0.1°C/W

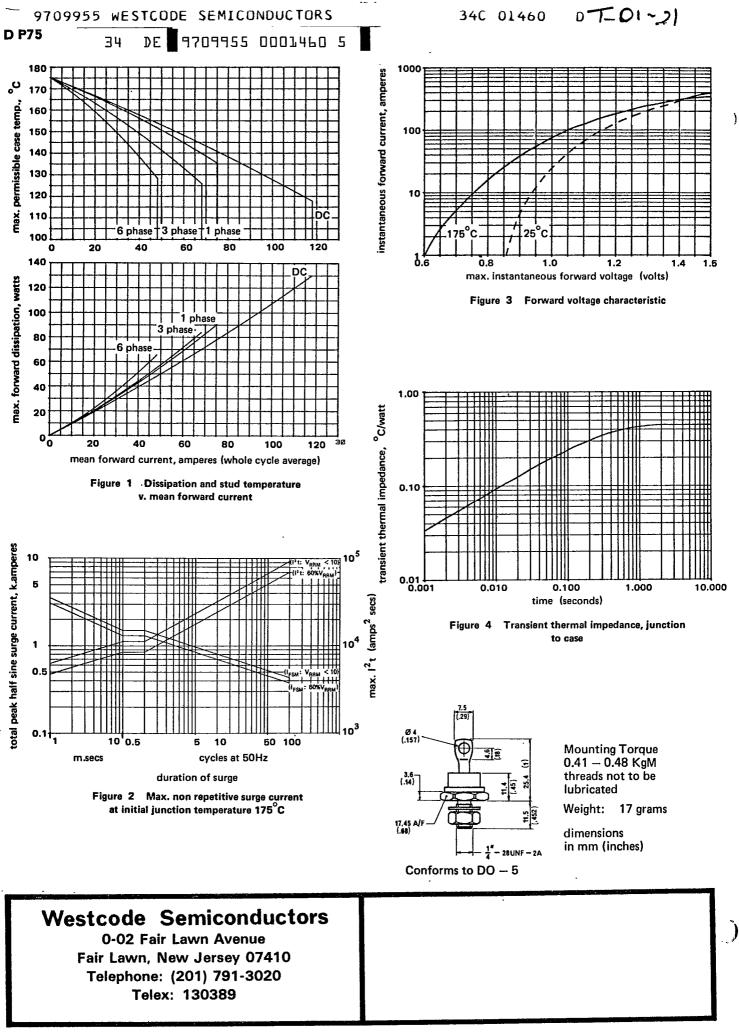
VOLTAGE CODE	02	04	06	08	10	12	14	15	16
Repetitive voltage V <sub>RRM</sub>	200	400	600	800	1000	1200	1400	1500	1600
Non-repetitive voltage V <sub>RSM</sub>	300	500	700	900	1100	1300	1500	1600	1700

#### ORDERING INFORMATION (Please quote device code as explained below - 10 digits)

S W	• •	РС	•	0 7 5
FIXED BASIC CODE	VOLTAGE CODE (see above)	FIXED OUTLINE CODE DO5	STUD POLARITY N = cathode R = anode	FIXED TYPE CODE

Typical code SW06PCR075 =  $600V_{BBM}$  diode with stud anode

In the interest of product improvement, Westcode reserves the right to change specifications at any time without notice.



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