

# STPRF1605CT thru 1660CT

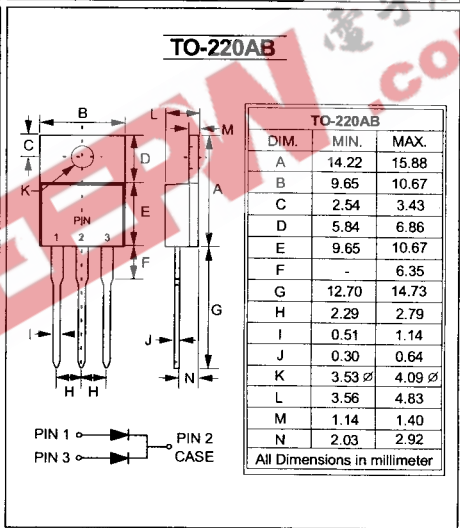
<b>SUPER FAST GLASS PASSIVATED RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 600 Volts</b> <b>FORWARD CURRENT - 16 Amperes</b>
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**FEATURES**

- Glass passivated chip
- Superfast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- High surge capacity
- Plastic package has UL flammability classification 94V-0

**MECHANICAL DATA**

- Case : TO-220AB molded plastic
- Polarity : As marked on the body
- Weight : 0.08 ounces, 2.24 grams
- Mounting position : Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	STPRF 1605CT	STPRF 1610CT	STPRF 1615CT	STPRF 1620CT	STPRF 1630CT	STPRF 1640CT	STPRF 1650CT	STPRF 1660CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current @T <sub>C</sub> =100°C	I <sub(av)< sub=""></sub(av)<>	16								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I <sub>FSM</sub>	125								A
Maximum Forward Voltage at 8.0A DC	V <sub>F</sub>	0.95		1.3			1.5			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	5 500								μA
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	110						80		pF
Maximum Reverse Recovery Time (Note 2)	T <sub>RR</sub>	35			50					ns
Typical Thermal Resistance (Note 3)	R <sub>θJC</sub>	1.5								°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150								°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
 2. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub> 0.25A.  
 3. Thermal Resistance Junction to Case.

**RATING AND CHARACTERISTIC CURVES  
STPRF1605CT thru STPRF1660CT**

Pacific Power Products **3P**

