

## STPR510D thru STPR560D

# SUPER FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 100 to 600 Volts FORWARD CURRENT - 5.0 Amperes

#### **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

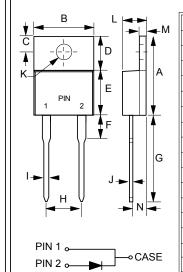
#### **MECHANICAL DATA**

Case: TO-220AC molded plastic
Polarity: As marked on the body
Weight: 0.08 ounces, 2.24 grams

• Mounting position : Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

### TO-220AC



TO-220AC						
DIM.	MIN. MAX.					
Α	14.22	15.88				
В	9.65	10.67				
С	2.54	3.43				
D	5.84	6.86				
Е	8.26	9.28				
F	-	6.35				
G	12.70	14.73				
Н	4.83	5.33				
I	0.51	1.14				
J	0.30	0.64				
K	3.53 Ø	4.09 Ø				
L	3.56	4.83				
М	1.14	1.40				
N	2.03	2.92				
All Dimensions in millimeter						

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	STPR 510D	STPR 520D	STPR 530D	STPR 540D	STPR 550D	STPR 560D	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	100	200	300	400	500	600	V
Maximum Average Forward @Tc=100°C Rectified Current	l(AV)			5				Α
Non Repetitive Peak Forward Surge Current Per Diode Sinusoidal	IFSM	55					А	
Maximum Forward Voltage at 5.0A @TJ =25°C DC @TJ =125°C	VF		1.1 1.0	1.3 1.2		1.4 1.4		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 125°C	lr	10 500						uA
Typical Junction Capacitance (Note 1)	Сл	78					pF	
Maximum Reverse Recovery Time (Note 2)	Trr		30	35		5	60	ns
Typical Thermal Resistance (Note 3)	Rejc			4.0	)			°C/W
Operating and Storage Temperature Range T <sub>J</sub> ,T <sub>STG</sub> -55 to +150							°C	

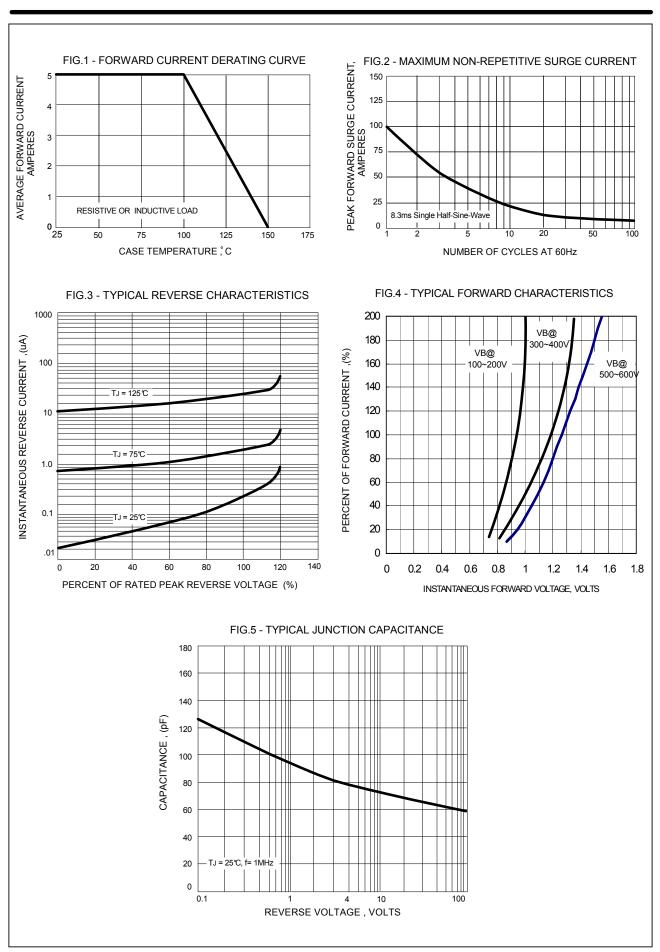
NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

3. Thermal Resistance Junction to case.

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## **Important Notice and Disclaimer**

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