

STPR1010CT thru 1060CT

SUPER FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 100 to 600 Volts FORWARD CURRENT - 10 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

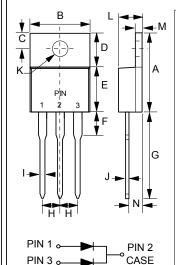
MECHANICAL DATA

Case: TO-220AB 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-220AB



TO-220AB						
DIM.	MIN. MAX.					
Α	14.22 15.88					
В	9.65	10.67				
С	2.54	3.43				
D	5.84	6.86				
E	8.26	9.28				
F	-	6.35				
G	12.70	14.73				
Н	2.29	2.79				
I	0.51	1.14				
J	0.30	0.64				
K	3.53 ∅	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.

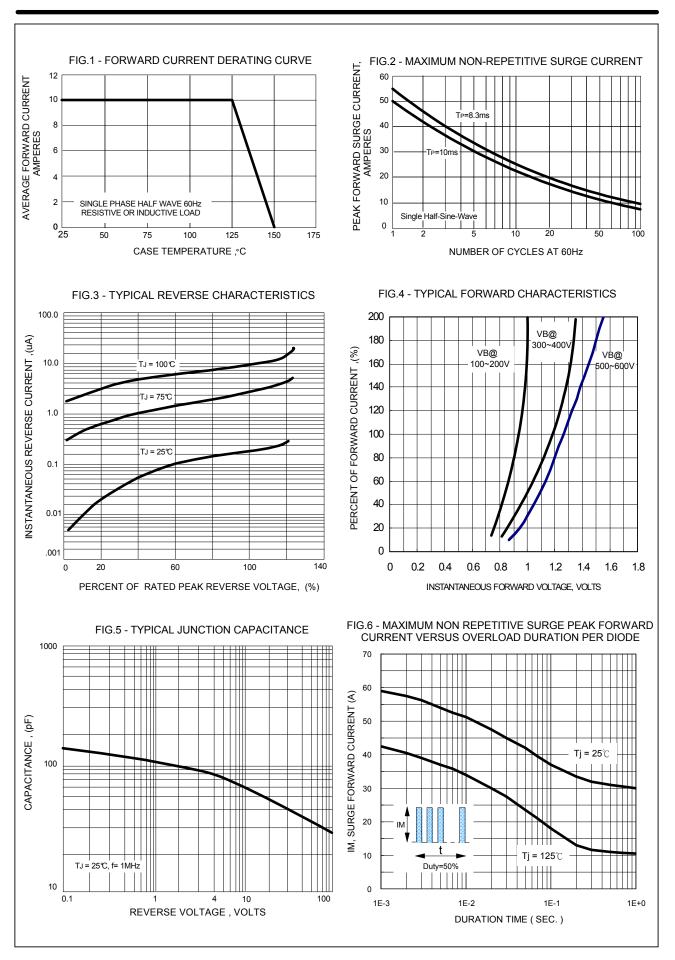
CHARACTERISTICS	SYMBOL	STPR 1010CT	STPR 1020CT	STPR 1030CT	STPR 1040CT	STPR 1050CT	STPR 1060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current @Tc=125℃	l(AV)	10						Α
Non Repetitive Peak Forward Surge Current Per Diode Sinusoidal Tp=8.3ms	IFSM	55						А
Maximum forward Voltage Pulse Width =300us Duty cycle IF=5A@TJ=25℃ IF=5A@TJ=125℃ IF=10A@TJ=25℃ IF=10A@TJ=25℃ IF=10A@TJ=25℃	VF	1. 1. 1.2 1.2	0 25	1.3 1.3 1.4 1.4	<u>2</u> 5	1 1	.5 .4 .7 .6	V
Maximum DC Reverse Current @TJ =25℃ at Rated DC Blocking Voltage @TJ =100℃	lR	10 250					uA	
Typical Junction Capacitance per element (Note 1)	Сл	80					pF	
Maximum Reverse Recovery Time (Note 2)	Trr	30		35			50	ns
Typical Thermal Resistance	R θ JC	4.0					°C/W	
Operating and Storage Temperature Range	Т _J ,Тsтg	-55 to +150				$^{\circ}\!\mathbb{C}$		

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.

REV. 2, Sep-2010, KTGC10







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