

STPR1050CT thru 1060CT

TO-220AB

REVERSE VOLTAGE

- 500 to 600 Volts

FORWARD CURRENT - 10 Amperes

SUPER FAST **GLASS PASSIVATED RECTIFIERS**

FEATURES

- · Glass passivated chip
- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- High surge capacity

MECHANICAL DATA

- Case :TO-220AB molded plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free"
- Polarity : As marked on the body
- Wight: 0.072 ounces, 2.0275 grams (Approximate)
- Mounting position : Any
- · Lead free finish, RoHS compliant
- Max. mounting torque=0.5N.m(5.1Kgf.cm)

Ε PIN 2

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			
Е	8.26	9.28			
F		6.35			
G	12.70	14.73			
Н	2.29	2.79			
-	0.51	1.14			
J	0.30	0.64			
K	3.53φ	4.09φ			
L	3.56	4.83			
М	1.14	1.40			
N	2.03	2.92			
0	1.14	1.70			
All dimensions in millimeters					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

Marking Code			STPR1050CT	STPR1060CT	
PARAMETER		SYMBOL	VALUE		UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	500	600	V
Maximum DC blocking voltage		V_{DC}	500	600	V
Maximum Average rectified output current	$@ T_C = 125^{\circ}C$	I _(AV)	10		Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	55		А
Operating and Storage temperature range		T_J , T_{STG}	-55 to +150		C

PIN 3 a

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX	UNIT
Forward voltage (Note1)	I _F =5A	T _J =25℃ T _J =125℃	V _F	1.50 1.40	- V
	I _F =10A	T _J =25℃ T _J =125℃		1.70 1.60	
Maximum DC Reverse current at Rate DC TJ=25℃ Blocking Voltage TJ=100℃		I _R	10 250	uA	
Typical junction capacitance (Note2)		C_{j}	80	pF	

THERMAL CHARACTERISTICS

4.0	€W.

DYNAMIC ELECTRICAL CHARACTERISTICS

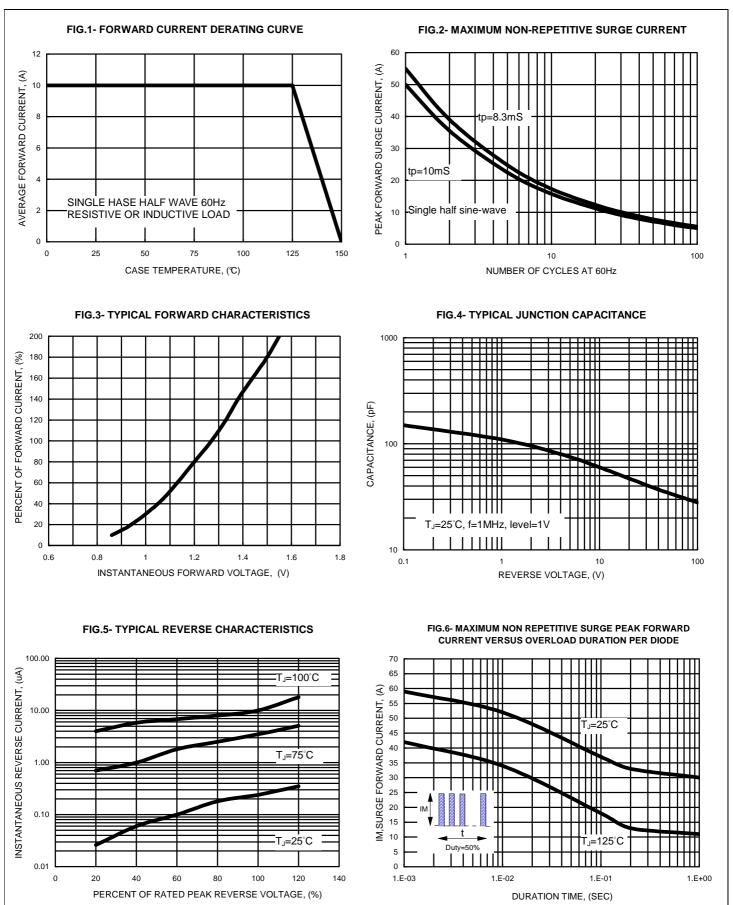
PARAMETER	TEST CONDITIONS	SYMBOL	MAX		UNIT
Reverse recovery time	I _F =0.5A, I _{rr} =0.25A, I _R =1A	Trr	50		nS
Note:				REV. 0, Jun2015, I	CTGC60

Note:

- (1) 300us pulse width. 2% duty cycle.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

RATING AND CHARACTERISTIC CURVES STPR1050CT thru 1060CT







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