LITEON SEMICONDUCTOR

SUPER FAST GLASS PASSIVATED RECTIFIERS

STPR1650CT thru 1660CT

REVERSE VOLTAGE FORWARD CURRENT

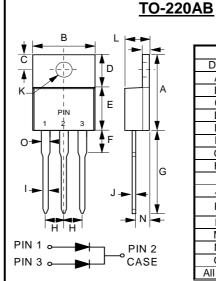
- 500 to 600 Volts
T - 16 Amperes

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, 2.0275grams(Approximate)
- Mounting position : Any
- Lead free finish, RoHS compliant
- Max. mounting torque=0.5N.m(5.1Kgf.cm)



<u>TO-220AB</u>						
DIM	MIN	MAX				
А	14.22	15.88				
В	9.65	10.67				
С	2.54	3.43				
D	5.84	6.86				
Ш	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				
К	3.53φ	4.09φ				
L	3.56	4.83				
М	1.14	1.40				
Ν	2.03	2.92				
0	1.14	1.70				
All dimensions in millimeters						

REV. 0, Jun.-2015, KTGC66

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

Marking Code PARAMETER				STPR1650CT	STPR1660CT		
			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 $@ T_c = 120^{\circ}C$			I _(AV)	16		А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	90		А		
Operating and Storage temperature range			T _J ,T _{STG}	-55 to +150		C	
STATIC ELECTRICAL CH	ARACTERI	STICS					
PARAMETER	TES	T CONDITION	SYMBOL	МАХ		UNIT	
Forward voltage (Note1)	I _F =8A	T」=25℃ T」=125℃	VE	1.5 1.4		V	
	I _F =16A	T _J =25℃ T _J =125℃	VF	1.70 1.60		v	
$ \begin{array}{ll} \mbox{Maximum DC Reverse current at Rate DC} & T_{\rm J}{=}25^{\rm C} \\ \mbox{Blocking Voltage} & T_{\rm J}{=}100^{\rm C} \end{array} $		I _R	10 500		uA		
Typical junction capacitance (Note2)		Cj	80		pF		
THERMAL CHARACTERIS	STICS						
PARAMETER		SYMBOL	ТҮР		UNIT		
Typical thermal resistance			RthJ _c	3.0		°C/W	
DYNAMIC ELECTRICAL C	HARACTE	RISTICS					
PARAMETER	TEST CONDITIONS		SYMBOL	МАХ		UNIT	
Reverse recovery time	I _F =0.5A, I _{rr} =0.25A, I _R =1.0A		Trr	50		nS	

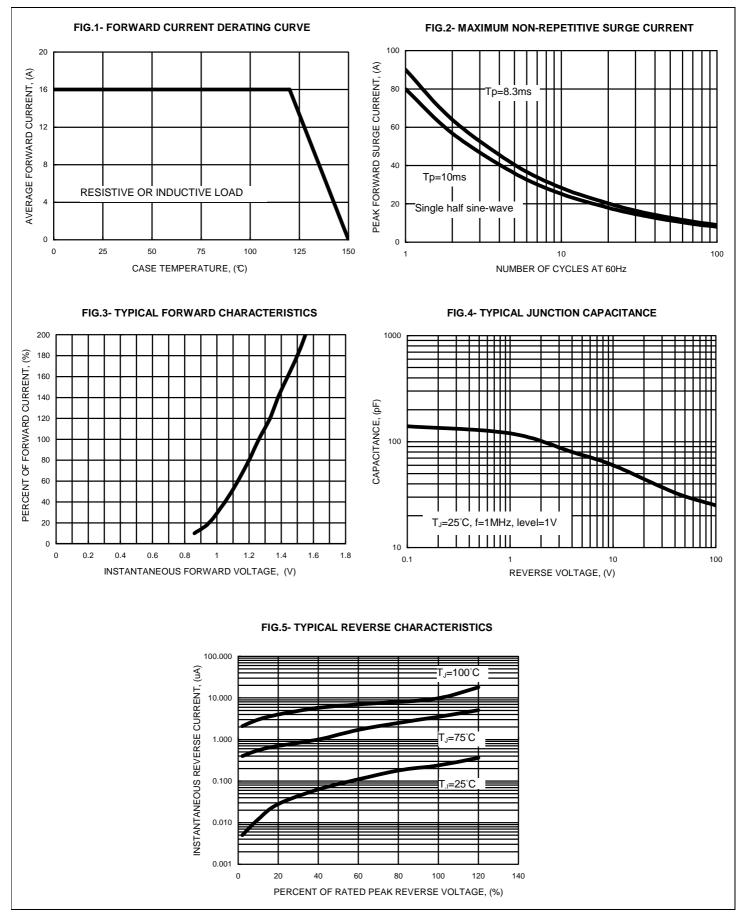
Note :

(1) 300us pulse width, 2% duty cycle.

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

RATING AND CHARACTERISTIC CURVES STPR1650CT thru 1660CT

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