

**SUPER FAST
GLASS PASSIVATED RECTIFIER**

**REVERSE VOLTAGE – 600Volts
FORWARD CURRENT – 10 Amperes**

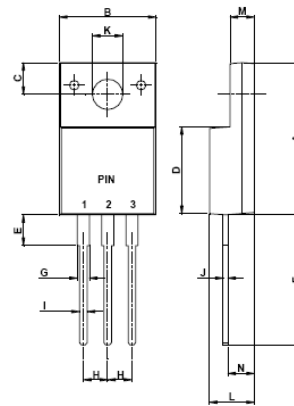
FEATURES

- 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 : ITO-220AB molded plastic
- Polarity : As marked on the body
- Weight : 0.06 ounces, 1.70 grams
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

ITO-220AB



ITO-220AB		
DIM.	MIN.	MAX.
A	15.50	16.50
B	10.0	10.40
C	3.00	3.50
D	9.00	9.30
E	2.90	3.60
F	13.46	14.22
G	1.15	1.70
H	2.40	2.70
I	0.75	1.00
J	0.45	0.70
K	3.00∅	3.30∅
L	4.36	4.77
M	2.48	2.80
N	2.50	2.80

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS		SYMBOL	STPF1060CT	UNIT
Device marking code		Note	STPF1060CT	---
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	600	V
Average Rectified Output Current See FIG.1		I _F	10	A
Peak Forward Surge Current 8.3ms single half sine-wave		I _{FSM}	55	A
Breakdown voltage	IR=10uA T _j =25°C	V _B	600	V
Forward Voltage (1)	IF=5A T _j =25°C T _j =125°C	V _F	1.5 1.4	V
	IF=10A T _j =25°C T _j =125°C		1.7 1.6	
Leakage Current	VR=600V T _j =25°C T _j =100°C	I _R	10 250	uA
Reverse recovery time	IF= 0.5A I _{rr} = 0.25A IR =1.0A T _j =25°C	t _{rr}	50	ns
Typical Junction Capacitance	VR=4V Freq.=1MHz T _j =25°C	C _j	30	pF
Typical thermal resistance, Junction to Case (2)		R _{θJC}	3.5	°C/W
Operating and Storage junction temperature range		T _J , T _{STG}	-55 to +150	°C

Note :

- (1) 300us Pulse Width, 2% Duty Cycle.
- (2) Thermal Resistance test performed in accordance with JESD-51. R_{θJL} is measured at the PIN 2, R_{θJC} is measured at the top centre of body.

REV.-3, Nov-2017, KTGC48

FIG.1- FORWARD CURRENT DERATING CURVE

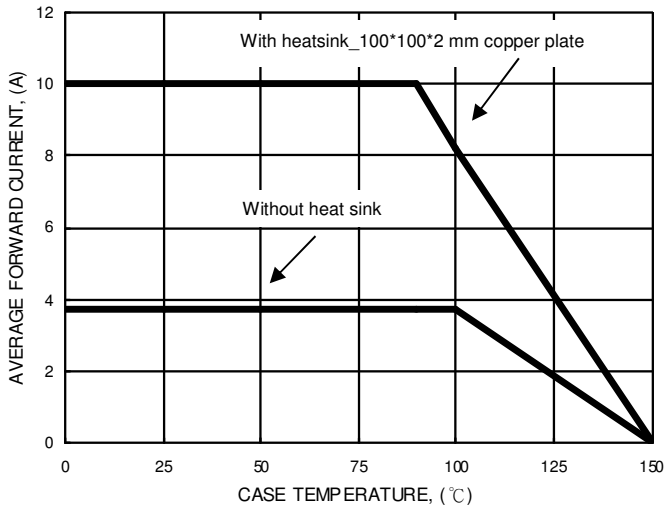


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

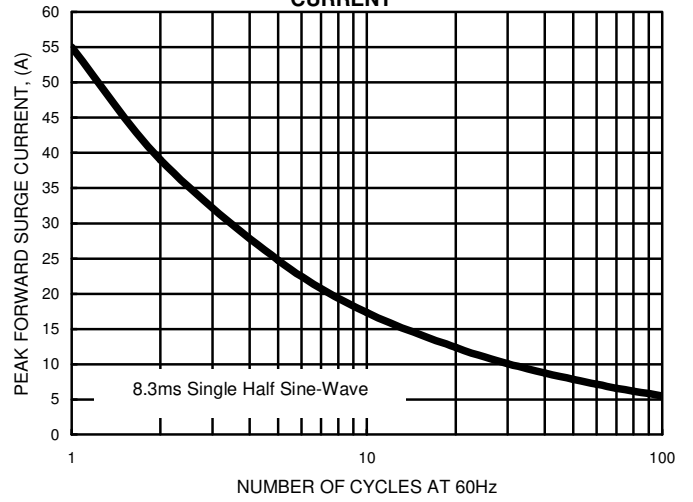


FIG.3- TYPICAL FORWARD CHARACTERISTICS

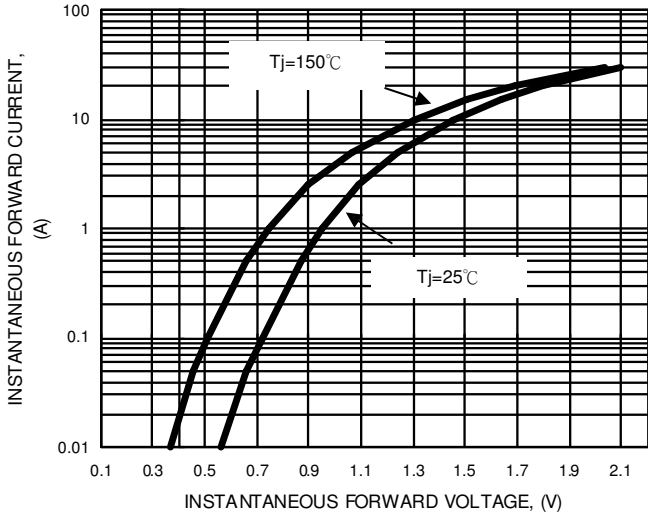


FIG.4- TYPICAL JUNCTION CAPACITANCE

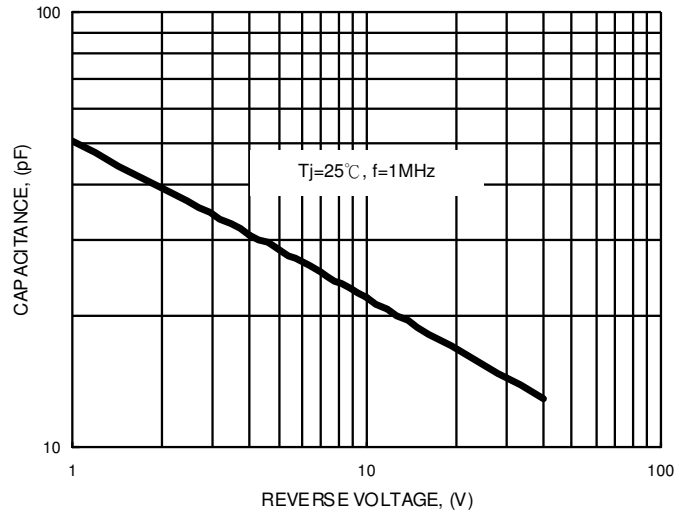
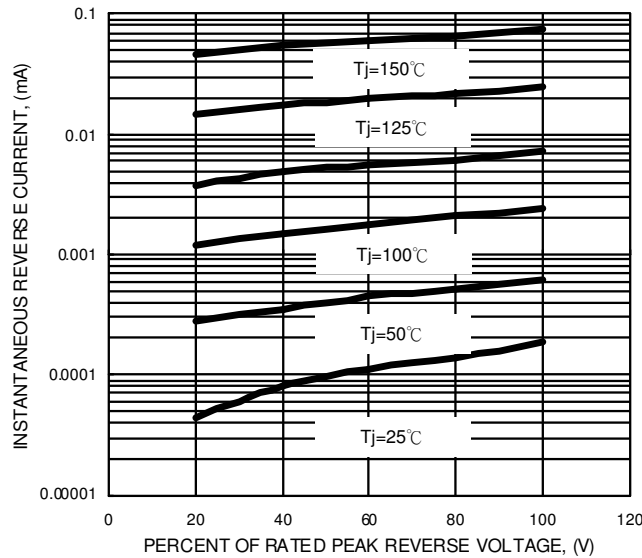


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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