

**SUPER FAST
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **200** Volts
FORWARD CURRENT - **20** Amperes

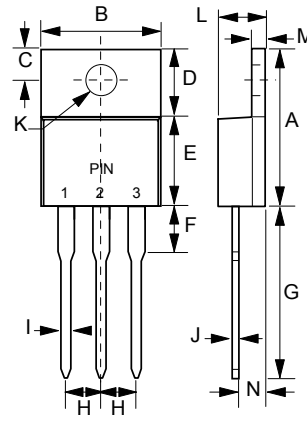
FEATURES

- 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
- Case Material: Plastic material, UL flammability classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating
- Polarity indicator: As marked on the body
- Weight: 0.08 ounces, 2.24 grams
- Component in accordance to RoHs 2002/95/EC
- ESD capability : HBM_8KV (JESD22-A114)
- Maximum mounting torque = 0.5 N.m (5.1 Kgf.cm)

TO-220AB



TO-220AB		
DIM.	MIN.	MAX.
A	14.40	15.20
B	9.65	10.67
C	2.54	3.43
D	5.84	6.86
E	8.26	9.28
F	-	4.20
G	12.70	14.73
H	2.29	2.79
I	0.51	1.14
J	0.30	0.64
K	3.53 ∅	4.09 ∅
L	3.56	4.83
M	1.14	1.40
N	2.03	2.92

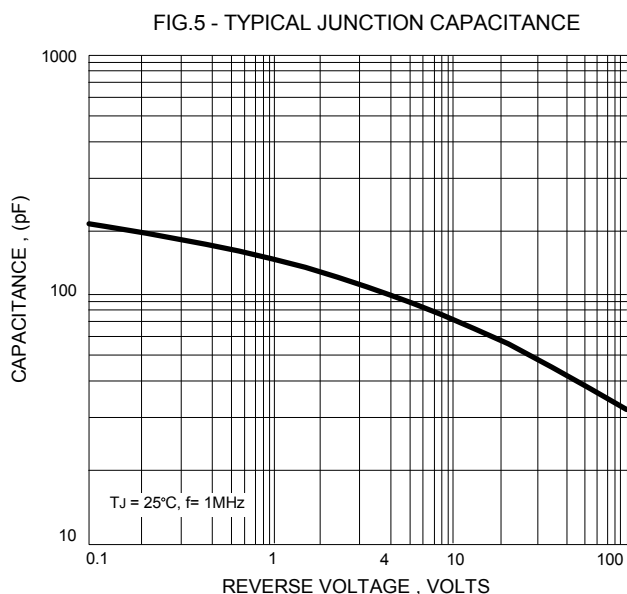
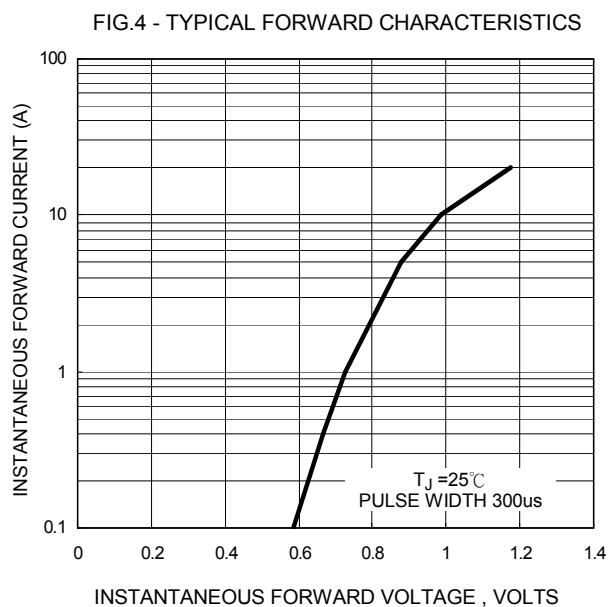
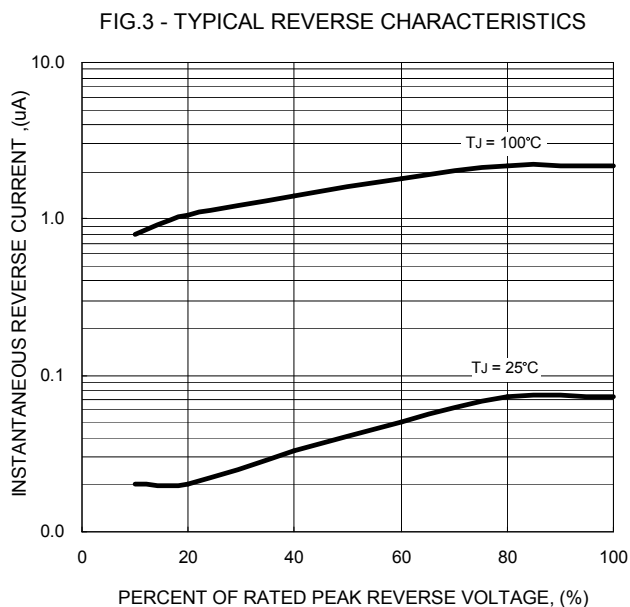
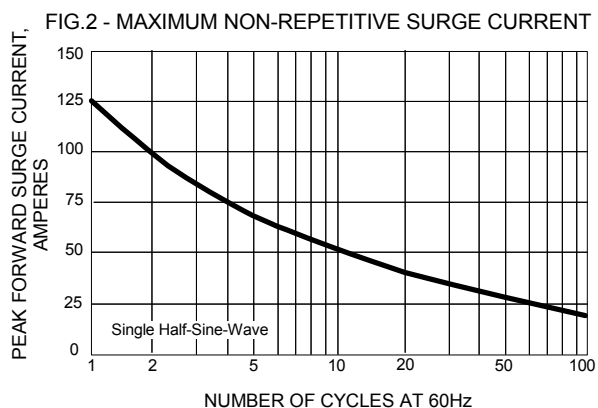
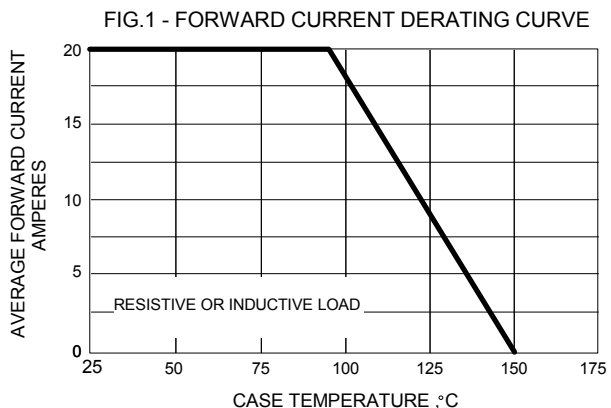
All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	STPR2020CTW	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	V
Maximum RMS Voltage	VRMS	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Rectified Current @Tc=95°C	I(AV)	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	125	A
Maximum forward Voltage at IF=10A@TJ=25°C Pulse width =300us 2% Duty cycle IF=10A@TJ=125°C IF=20A@TJ=25°C IF=20A@TJ=125°C	VF	1.1 1.0 1.25 1.20	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	IR	10 500	uA
Typical Junction Capacitance per element (Note 1)	CJ	100	pF
Maximum Reverse Recovery Time (Note 2)	TRR	30	ns
Typical Thermal Resistance (Note 3)	RθJA RθJL RθJC	6.0 1.0 1.5	°C/W
Operating and Storage Temperature Range	TJ,TSTG	-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 Ambient, Lead and Case.



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