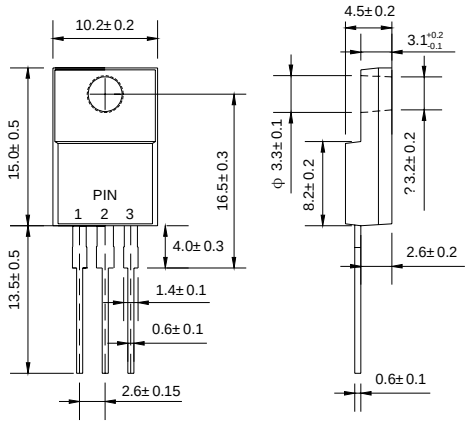
20A10FC-20A100FC

Plastic Silicon Rectifiers

VOLTAGE RANGE: 100 --- 1000 V
CURRENT: 20 A

ITO-220AB



Dimensions in millimeters

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

Mechanical Data

- Case:JEDEC ITO-220AB,molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.06ounce, 1.67 grams
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		20A10FC	20A20FC	20A40FC	20A60FC	20A80FC	20A100FC	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum average forward rectified current @T_C=110 ℃	$I_{F(AV)}$	20						A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	400						A
Maximum instantaneous forward voltage @ 10 A	V_F	1.0						V
Maximum reverse current @T_A=25℃	I_R	10						μA
at rated DC blocking voltage @T_A=100℃		100						
Typical junction capacitance (Note1)	C_J	150						pF
Typical thermal resistance (Note2)	$R_{\theta JC}$	2.0						℃/W
Operating junction temperature range	T_J	- 55 ---- + 150						℃
Storage temperature range	T_{STG}	- 55 ---- + 150						℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to case.

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Ratings AND Charactieristic Curves

FIG.1 – FORWARD DERATING CURVE

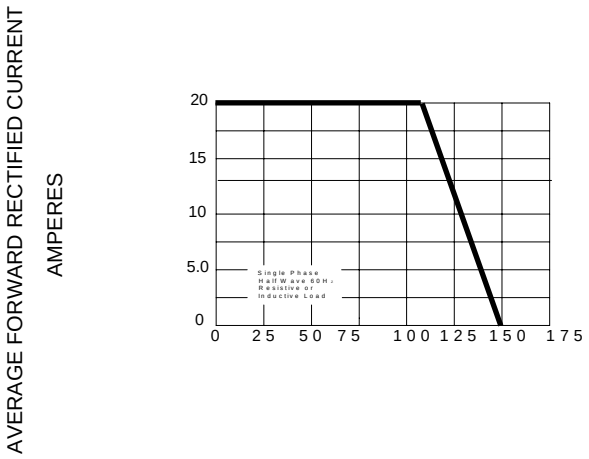

FIG.2 – TYPICAL FORWARD CHARACTERISTICS

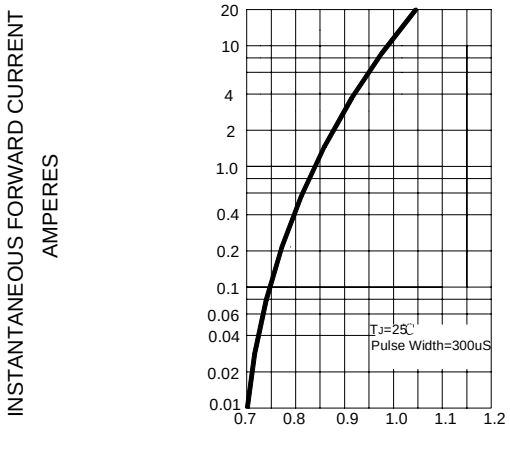

FIG.3 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

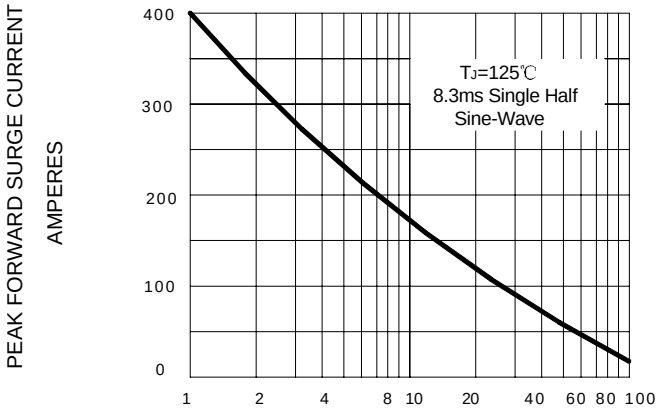

FIG.4 – TYPICAL JUNCTION CAPACITANCE