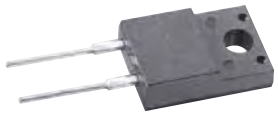
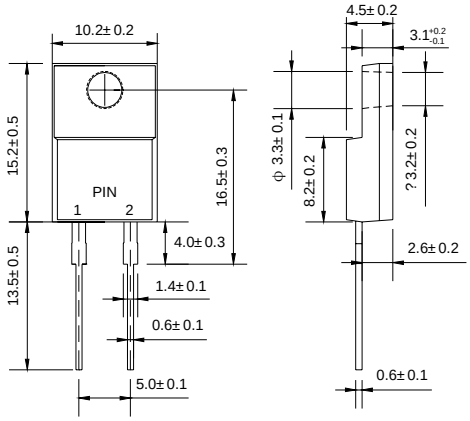
10A05F-10A100F

Plastic Silicon Rectifiers

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 10.0 A



ITO-220AC



Dimensions in millimeters

Features

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

Mechanical Data

- Case:JEDEC ITO-220AC,molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.056 ounces,1.587 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%.

		10A05F	10A10F	10A20F	10A40F	10A60F	10A80F	10A100F	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forw ard rectified current 9.5mm lead length, @T_C=50℃	$I_{F(AV)}$	10.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T_J=125℃	I_{FSM}	400							A
Maximum instantaneous forw ard 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	120							pF
Typical thermal resistance (Note2)	$R_{\theta JC}$	10							℃/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

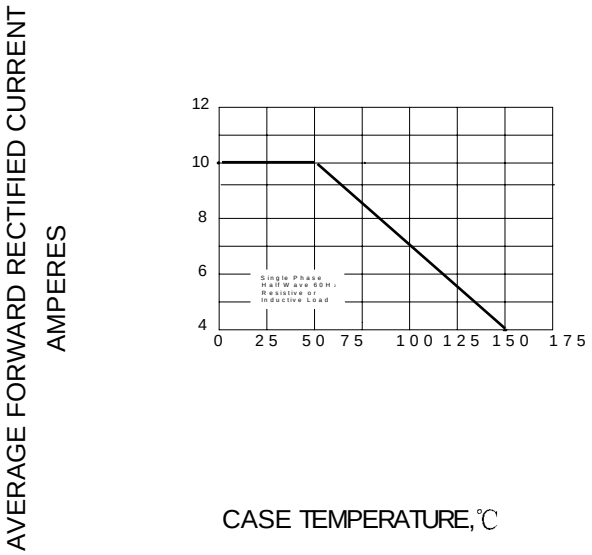

FIG.2 -- TYPICAL FORWARD CHARACTERISTICS

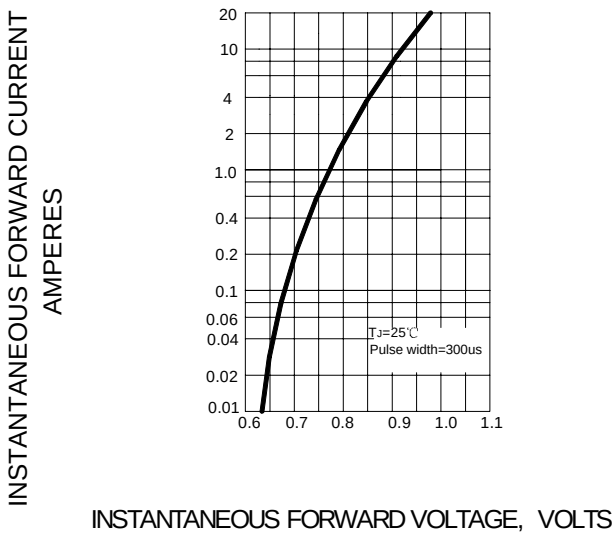

FIG.3 --MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

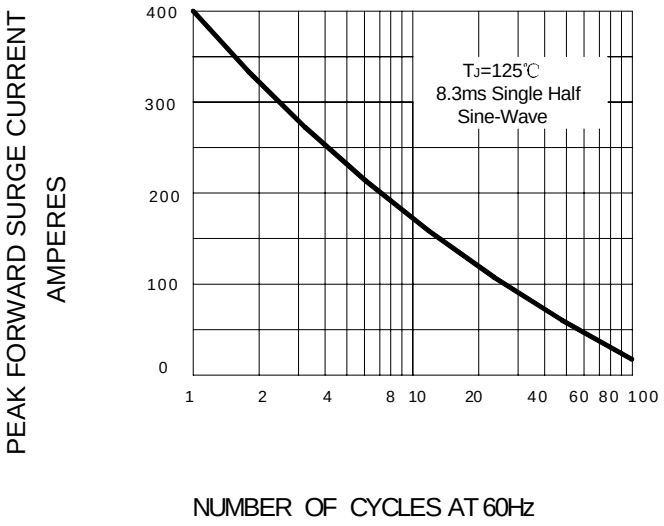

FIG.4 -- TYPICAL JUNCTION CAPACITANCE