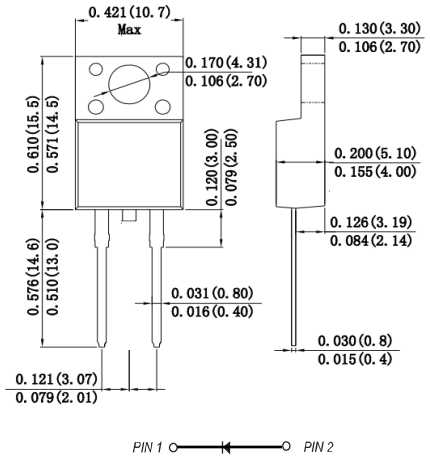
SF1005F-SF1060F

10.0Amp Super Fast Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Low reverse leakage
- High forward surge current capability
- Low forward voltage,high efficiency.
- For use in low voltage,high frequency inverters.
- Dual rectifier consruction,positive center tap.
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

ITO-220AC



All dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC ITO-22OAC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Finish :All external surfaces corrosion resistant and terminal leads are readily solderable.

Mounting Position: Any

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SF 1005F	SF 1010F	SF 1020F	SF 1040F	SF 1050F	SF 1060F	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	500	600	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	350	420	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	500	600	VOLTS
Maximum average forward rectified current at T_L=60℃	$I_{(AV)}$	10.0						Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200						Amps
Maximum instantaneous forward voltage at 10.0A	V_F	0.95			1.25		1.7	Volts
Maximum DC reverse current T_A =25℃ at rated DC blocking voltage T_A=100℃	I_R	10.0 500.0						u A
Maximum reverse recovery time (NOTE 1)	t_{rr}	35						nS
Typical junction capacitance (Note 2)	C_J	100						pF
Typical thermal resistance	R_{qJA}	52						°C/W
Storage temperature range & Operating junction	T_J,T_{STG}	-55 to +150						°C

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

SF1005F THRU SF1060F

FIG. 1- FORWARD CURRENT DERATING CURVE

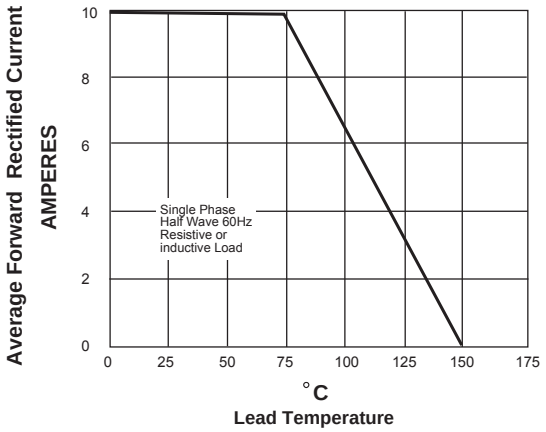


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

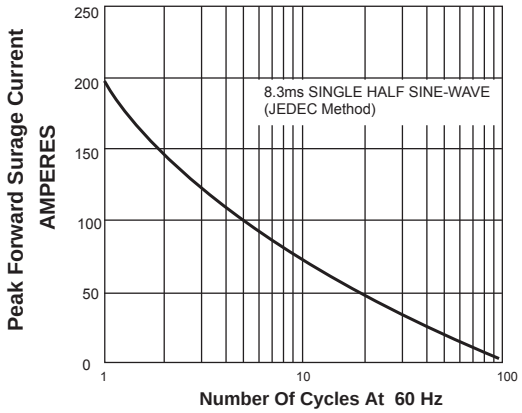


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

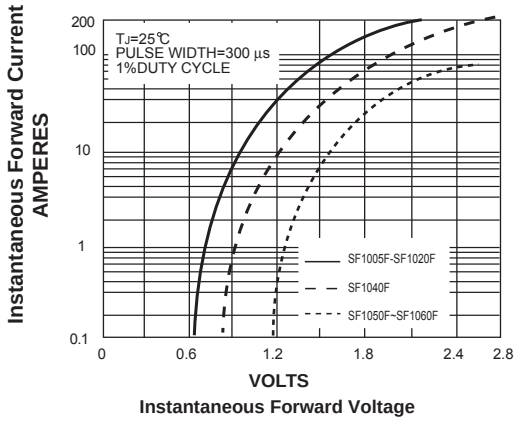


FIG. 4-TYPICAL REVERSE CHARACTERISTICS