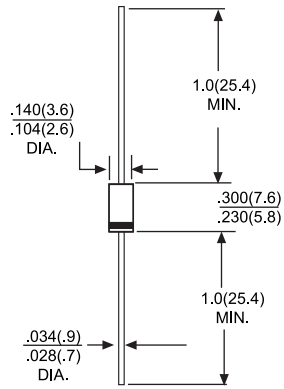
Super Fast Rectifiers Reverse Voltage 50V~600V, Forward Current 2.0Amp

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

DO-15



Dimensions in inches and (millimeters)

Mechanical Data

- Cases:Molded plastic
- Epoxy:UL 94V-O rate flame retardant
- Lead:Axial leads,solderable per MIL-STD-202,Method 208 guaranteed
- Polarity:Color band denotes cathode end
- High temperature soldering guaranteed: 250^{0}C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight:0.40 gram

Maximum Ratings and Electrical Characteristics

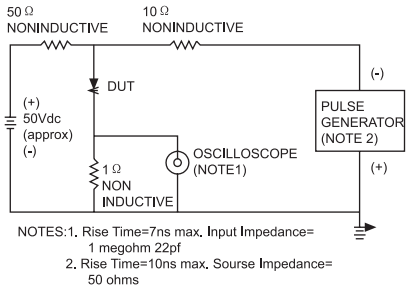
Ratings at 25℃ ambient temperature unless otherwise specified.
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or induc ive load.

Type Number		SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @T_A = 55°C	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50								A
Maximum Instantaneous Forward Voltage @2.0A	V_F	0.95				1.3		1.7		V
Maximun DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 100°C	I_R	5.0 100								uA uA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	35								nS
Typical Junction Capacitance (Note 2)	C_J	60				30				pF
Operating Temperature Range	T_J	-55 to+125								°C
Storage Temperature Range	T_{STG}	-55 to+150								°C

NOTES: 1. Reverse Recovery Test Conditions: I_F=0.5A,I_R=1.0A,I_{RR}=0.25A
2.Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVER TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



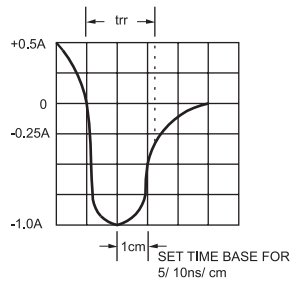


FIG.2- MAXIMUM AVERAGE
FORWARD CURRENT DERATING

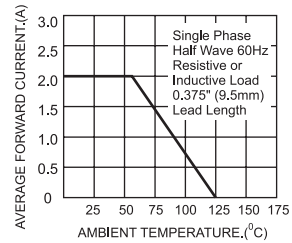


FIG.3- TYPICAL REVERSE CHARACTERISTICS

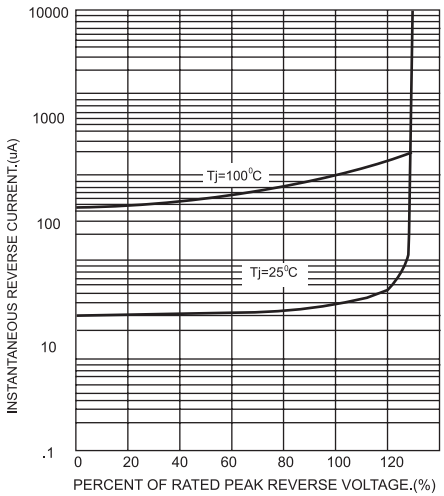


FIG.4-TYPICAL FORWARD CHARACTERISTICS

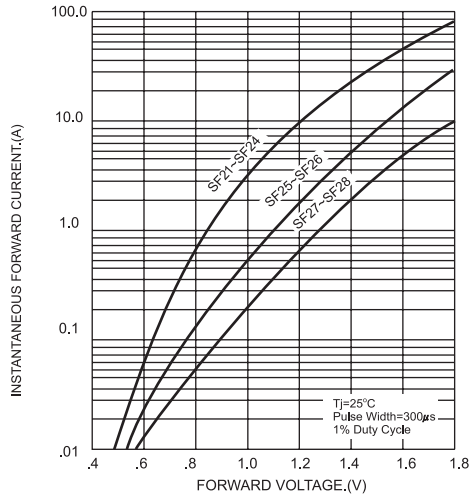


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

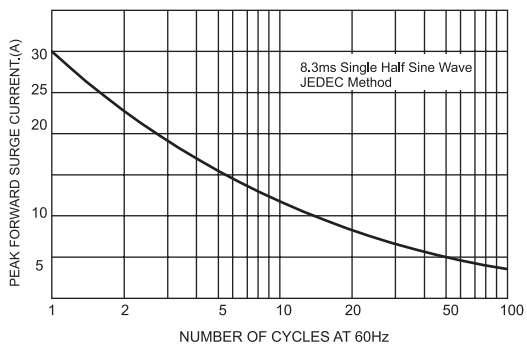


FIG.6- TYPICAL JUNCTION CAPACITANCE

