

SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts
FORWARD CURRENT - 1.0 Ampere

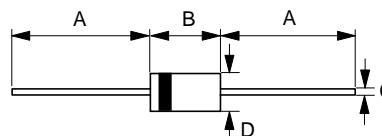
FEATURES

- Glass passivation Junction
- Super fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chloroethene and similar solvents
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



DO-41		
Dim.	Min.	Max.
A	25.4	-
B	4.20	5.20
C	0.70 \varnothing	0.90 \varnothing
D	2.00 \varnothing	2.70 \varnothing

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF18G	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	V
Maximum average forward rectified current	IF	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	30							A
Maximum instantaneous $I_F=1A@25^\circ C$	V _F	0.98			1.3		1.75		V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I _R	5 100							uA
Maximum Reverse Recovery Time	T _{rr}	35							nS
Typical Junction Capacitance	C _J	30			15				pF
Typical Thermal Resistance	R _{θJA}	60							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES

