

## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- Ultrafast recovery time for high efficiency
- High temperature soldering guaranteed: 260°C/10seconds,  
9.5mm lead length
- Lead and body according with RoHS standard

## Mechanical Data

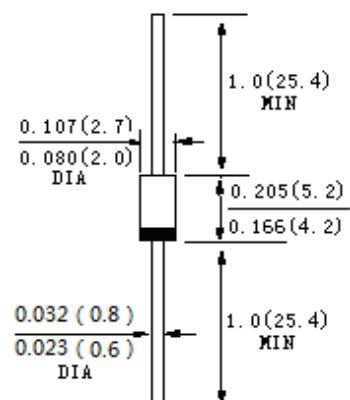
**Case:** DO-41 Molded plastic

**Terminals:** Plated axial leads, solderable per  
MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

DO-41



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

TYPE NUMBER	Symbols	SF11	SF12	SF14	SF16	SF17	SF18	Units			
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	500	600	V			
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	350	420	V			
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	500	600	V			
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ C$	$I_{F(AV)}$	1.0						A			
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	30						A			
Maximum instantaneous forward voltage at 1.0A	$V_F$	0.95		1.25	1.7			V			
Maximum reverse recovery time( <b>Note: 1</b> )	$T_{rr}$	35						nS			
Maximum DC reverse current at rated DC blocking voltage	$I_{R1}$	5.0						$\mu A$			
	$I_{R2}$	200						$\mu A$			
Operating junction temperature range	$T_J$	-55 to +150						°C			
Storage temperature range	$T_{stg}$	-55 to +150						°C			

**Note: 1.** Reverse Recovery Test Conditions:  $IF=0.5A$ ,  $IR=1.0A$ ,  $IRR=0.25A$ .



### Characteristic Curves

