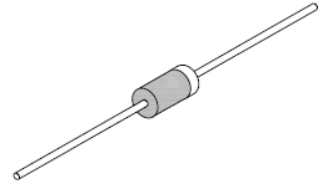


## 2.0A Super Fast Recovery Rectifier

### Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed 250°C/10 seconds  
.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



DO-15



### Mechanical Data

<b>Case:</b>	DO-15, molded plastic
<b>Epoxy:</b>	UL 94V-0 rate flame retardant
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.40 gram

### Maximum Ratings and Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	TSF21	TSF22	TSF23	TSF24	TSF25	TSF26	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	V	
<b>VRMS</b>	Maximum RMS Voltage	35	70	105	140	210	280	V	
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	150	200	300	400	V	
<b>I<sub>AV</sub></b>	Maximum Average Forward Rectified Current	2.0						A	T <sub>a</sub> =55 °C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	75						A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

# 2.0A Super Fast Recovery Rectifier

## TSF21 - TSF26

Symbol	Description	TSF21	TSF22	TSF23	TSF24	TSF25	TSF26	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	0.95				1.25		V	I <sub>F</sub> =2.0 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	T <sub>A</sub> =25° C
		100							T <sub>A</sub> =100° C
<b>T<sub>rr</sub></b>	Typical Reverse Recovery Time	35						nS	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A, I <sub>rr</sub> =0.25A
<b>C<sub>J</sub></b>	Typical Junction Capacitance	60				30		pf	V <sub>R</sub> =4V, f=1MHz
<b>T<sub>J</sub></b>	Operating Temperature range	-55 to +125						°C	
<b>T<sub>STG</sub></b>	Storage Temperature Range	-55 to +150							

### Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

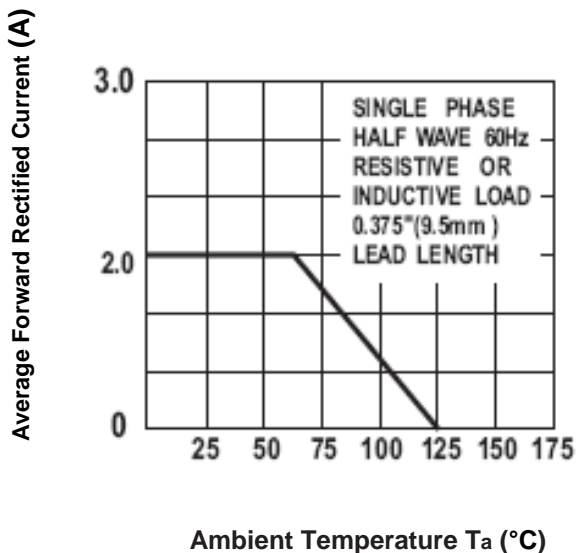
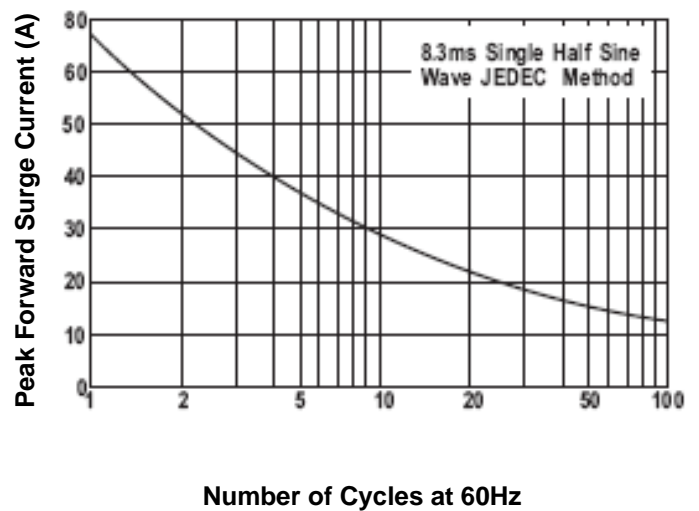


Fig.2-Max. Non-Repetitive Forward Surge Current



# 2.0A Super Fast Recovery Rectifier

## TSF21 - TSF26

Fig.3- Typical Forward Characteristics

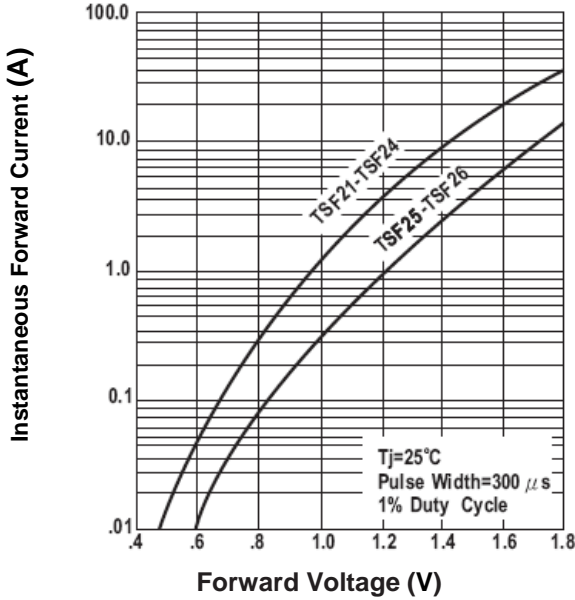


Fig.4-Typical Reverse Characteristics

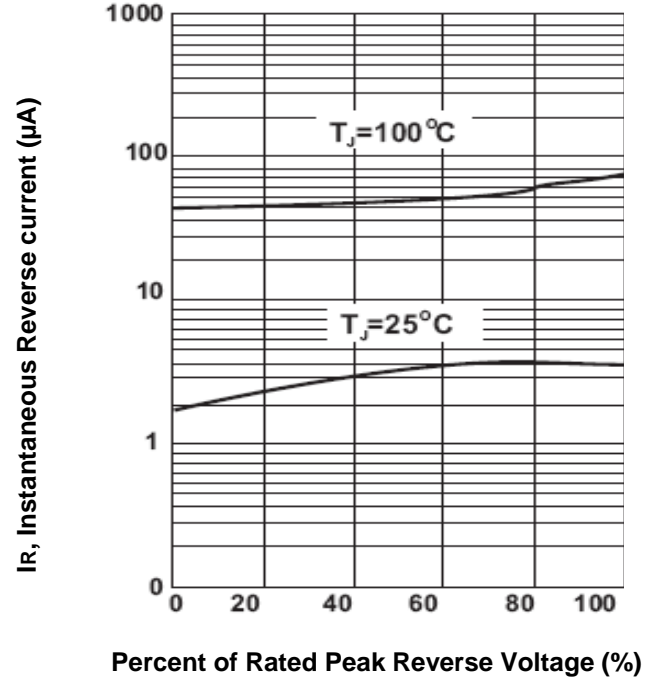
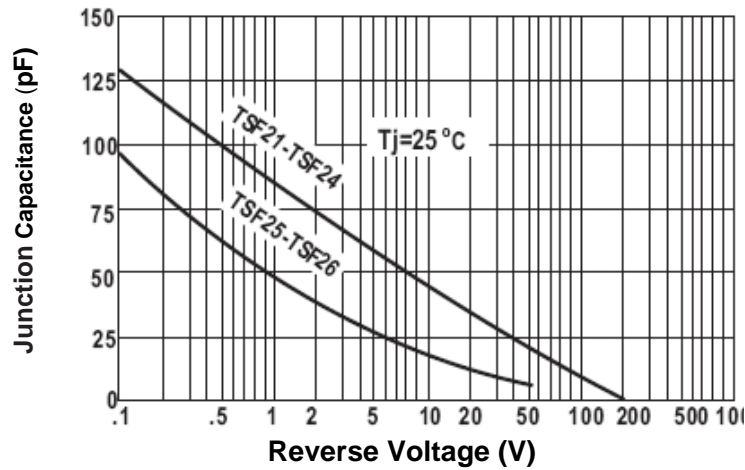


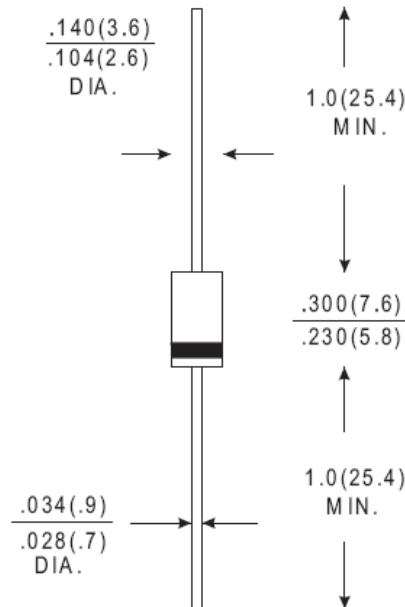
Fig.5- Typical Junction Capacitance



# 2.0A Super Fast Recovery Rectifier

TSF21 - TSF26

## Dimensions in inches (mm)



D0-15

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