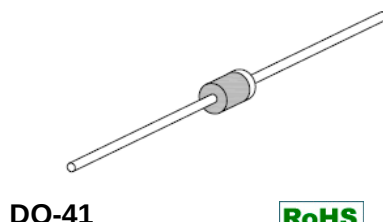


1.0A Super Fast Recovery Rectifier

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



Mechanical Data

Case:	DO-41, molded plastic
Epoxy:	UL 94V-0 rate flame retardant
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity:	Color band denotes cathode end
Weight:	0.34 gram

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

Symbol	Description	TSF11	TSF12	TSF13	TSF14	TSF15	TSF16	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	V	
V_{RMS}	Maximum RMS Voltage	35	70	105	140	210	280	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	150	200	300	400	V	
I_{AV}	Maximum Average Forward Rectified Current	1.0						A	T _a =55 °C
I_{FSM}	Peak Forward Surge Current	30						A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

1.0A Super Fast Recovery Rectifier

TSF11 - TSF16

Symbol	Description	TSF11	TSF12	TSF13	TSF14	TSF15	TSF16	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	0.95				1.25		V	I _F =1.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	T _A =25° C
		100							T _A =100° C
T _{rr}	Typical Reverse Recovery Time	35						nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	50				25		pf	V _R =4V, f=1MHz
T _J	Operating Temperature range	-55 to +125						° C	
T _{STG}	Storage Temperature Range	-55 to +150							

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

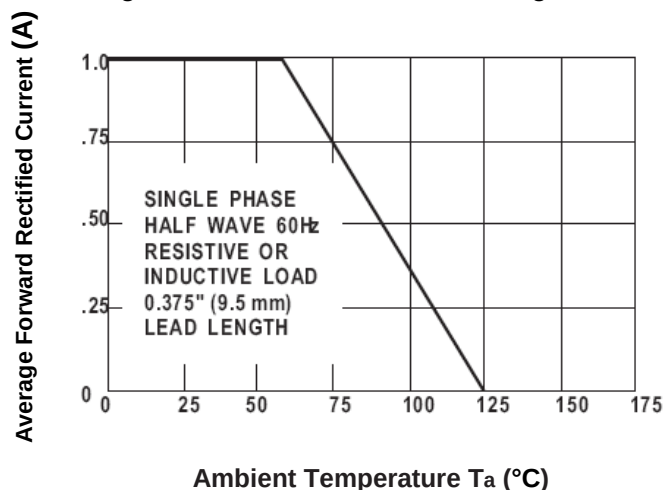
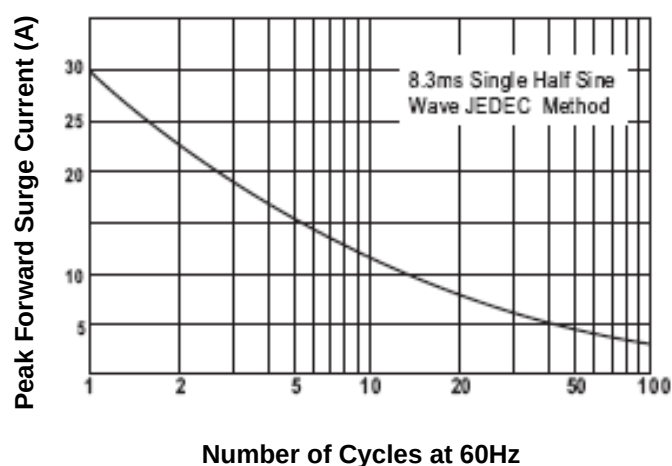


Fig.2-Max. Non-Repetitive Forward Surge Current



1.0A Super Fast Recovery Rectifier

TSF11 - TSF16

Fig.3- Typical Forward Characteristics

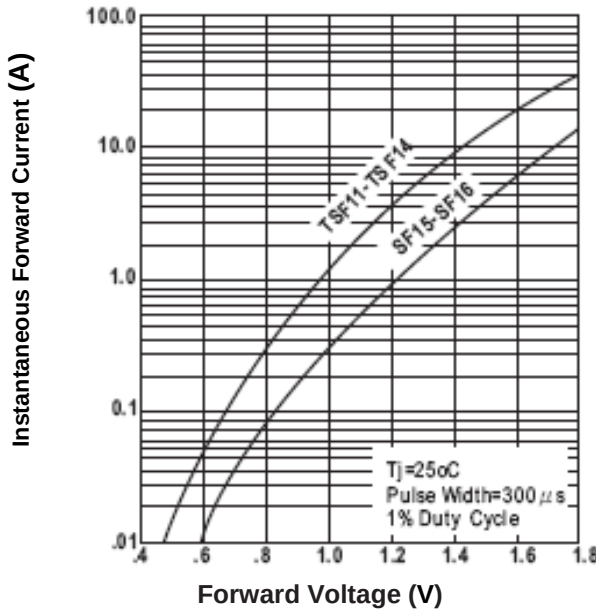


Fig.4-Typical Reverse Characteristics

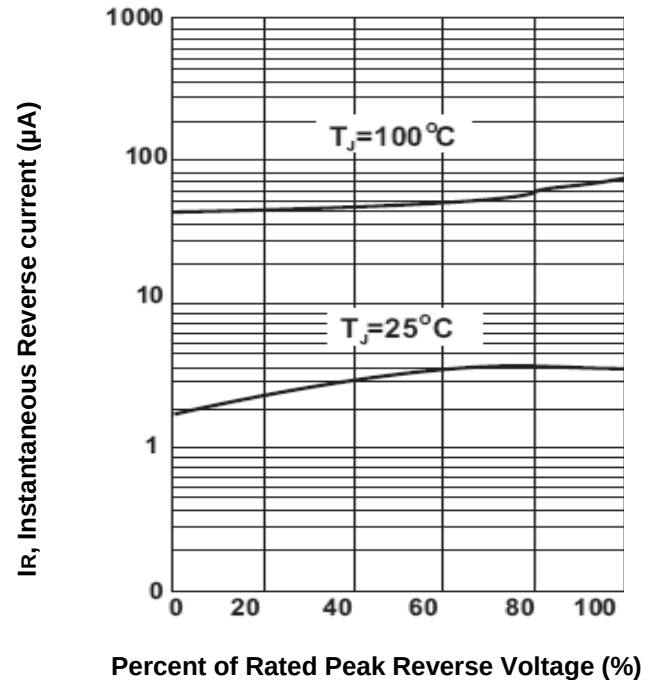
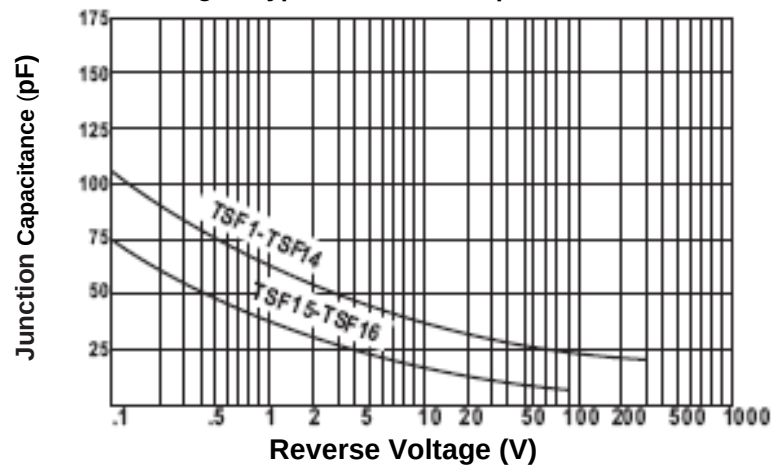


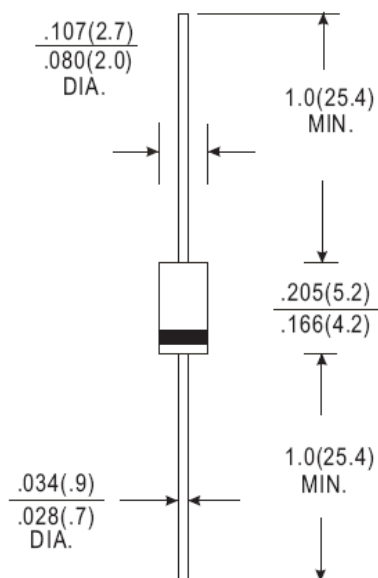
Fig.5- Typical Junction Capacitance



1.0A Super Fast Recovery Rectifier

TSF11 - TSF16

Dimensions in inches (mm)



DO-41

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