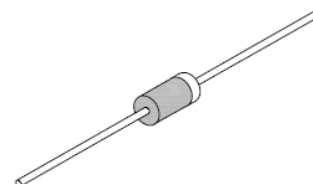


1.5A Fast Recovery Rectifier

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

Case:	DO-15, 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:	0.40 gram

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

Symbol	Description	TF 151	TF 152	TF 153	TF 154	TF 155	TF 156	TF 157	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{AV}	Maximum Average Forward Rectified Current	1.5							A	T _a =55 °C
I_{FSM}	Peak Forward Surge Current	60							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

1.5A Fast Recovery Rectifier

TF151 - TF157

Symbol	Description	TF 151	TF 152	TF 153	TF 154	TF 155	TF 156	TF 157	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.3							V	I _F =1.5 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	150				250	500		nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	30							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

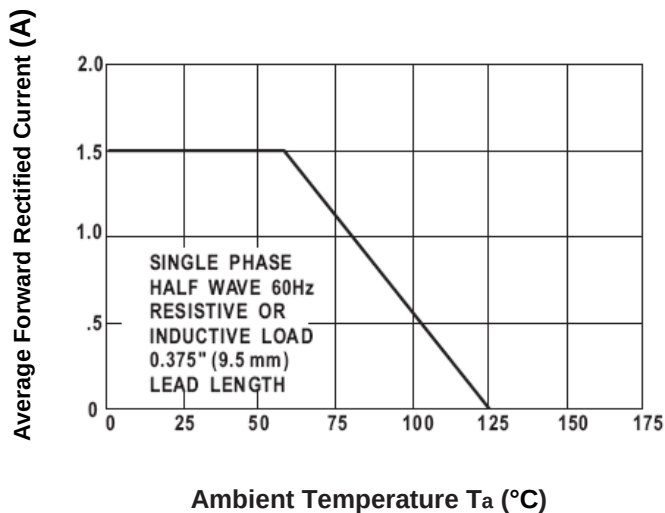
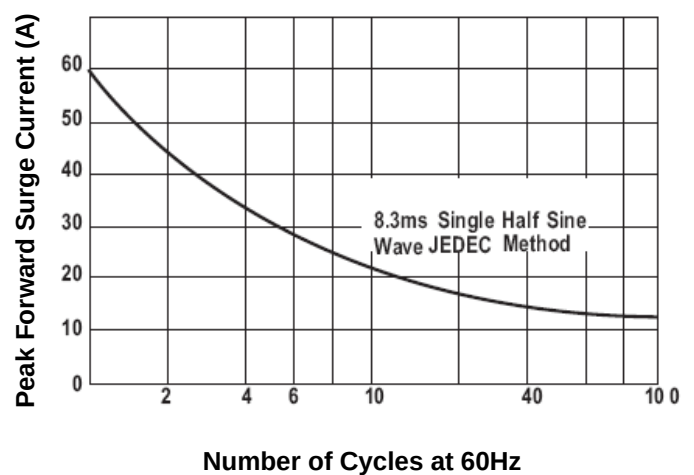


Fig.2-Max. Non-Repetitive Forward Surge Current



1.5A Fast Recovery Rectifier

TF151 - TF157

Fig.3- Typical Forward Characteristics

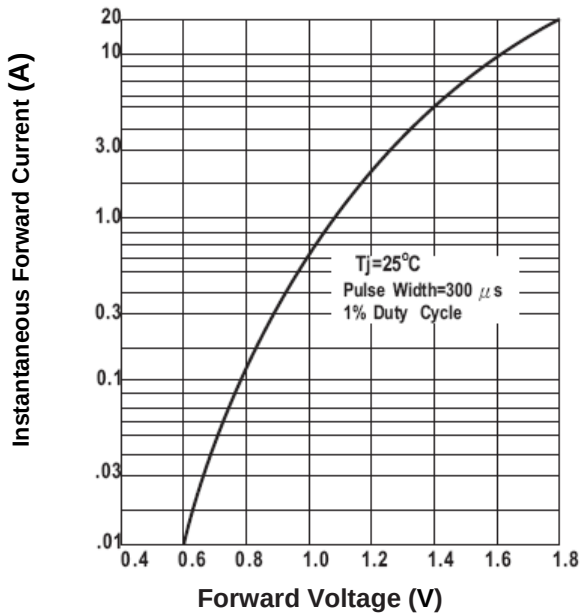
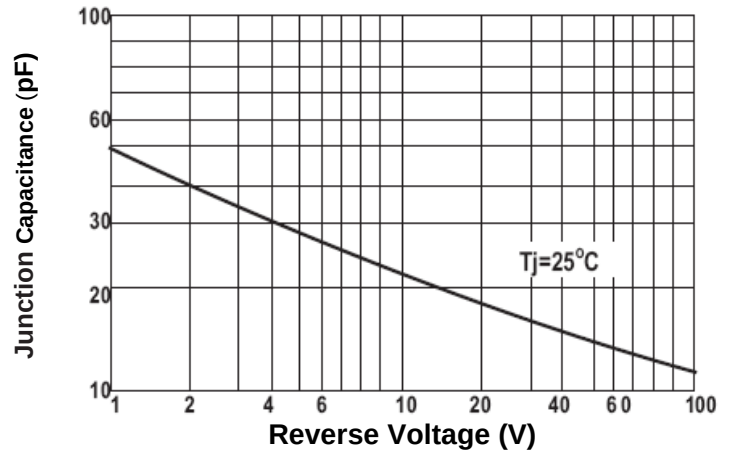
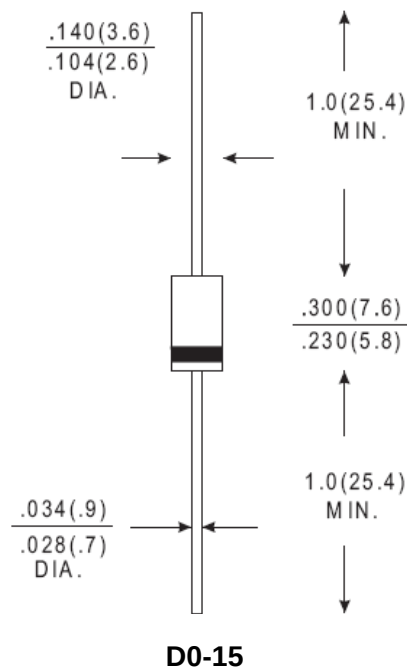


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



1.5A Fast Recovery Rectifier

TF151 - TF157

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