

1.5A FAST RECOVERY DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: DO-15, Molded Plastic

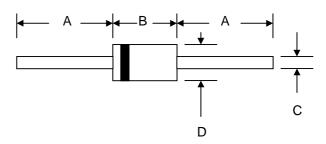
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.40 grams (approx.)Mounting Position: Any

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version



DO-15							
Dim	Min	Max					
Α	24.5	_					
В	5.50	7.62					
С	0.60	0.80					
D	2.60	3.60					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	FR151	FR152	FR153	FR154	FR155	FR156	FR157	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 75°C	lo	1.5						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60					А		
Forward Voltage $@I_F = 1.5A$	VFM	1.2						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	5.0 100						μΑ	
Reverse Recovery Time (Note 2)	trr		1	50		250	50	00	nS
Typical Junction Capacitance (Note 3)	Cj	30					pF		
Operating Temperature Range	Tj	-65 to +150					°C		
Storage Temperature Range	Тѕтс	-65 to +150					°C		

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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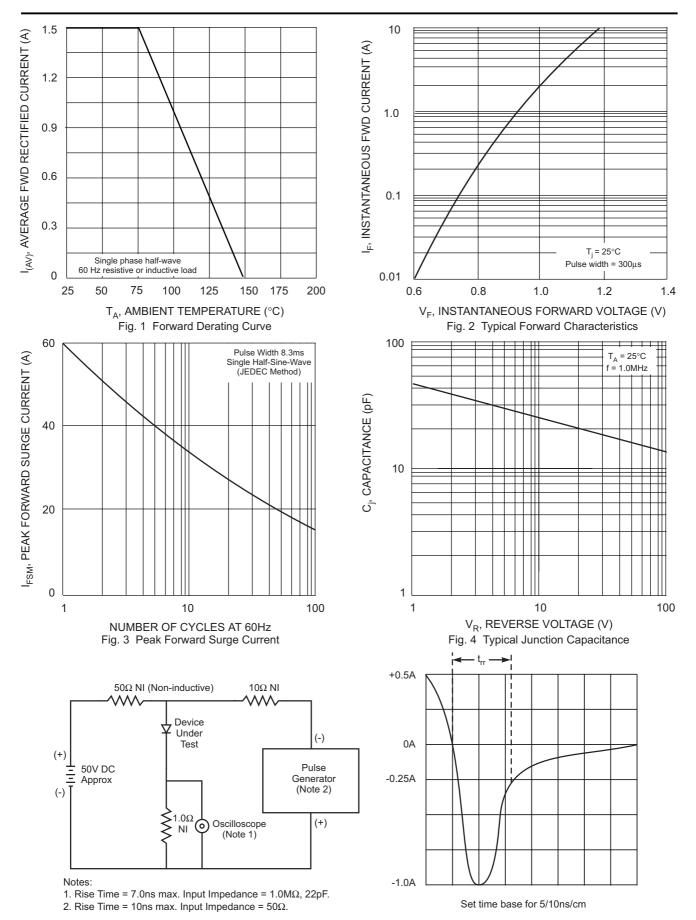


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit