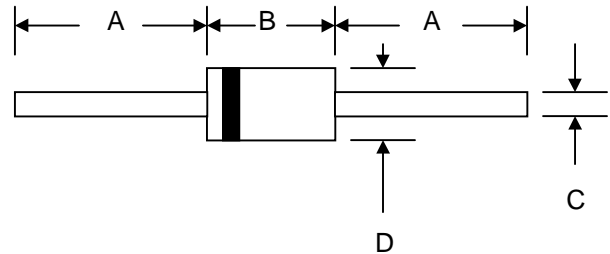


### Features

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

### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.40 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-15		
Dim	Min	Max
A	25.4	—
B	5.50	7.62
C	0.71	0.864
D	2.60	3.60
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	SFR201	SFR202	SFR203	SFR204	SFR205	SFR206	SFR207	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$								V
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	$I_O$	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60							A
Forward Voltage @ $I_F = 2.0\text{A}$	$V_{FM}$	1.2							V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$	5.0 100							$\mu\text{A}$
Reverse Recovery Time (Note 2)	$t_{rr}$	120				200	350		nS
Typical Junction Capacitance (Note 3)	$C_j$	30							pF
Operating Temperature Range	$T_j$	-65 to +125							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150							$^\circ\text{C}$

**\*Glass passivated forms are available upon request**

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case  
 2. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $IRR = 0.25\text{A}$ . See figure 5.  
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

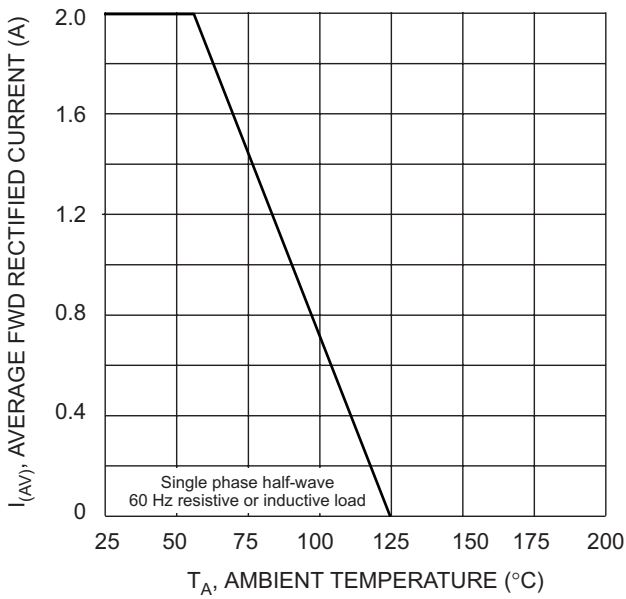


Fig. 1 Forward Derating Curve

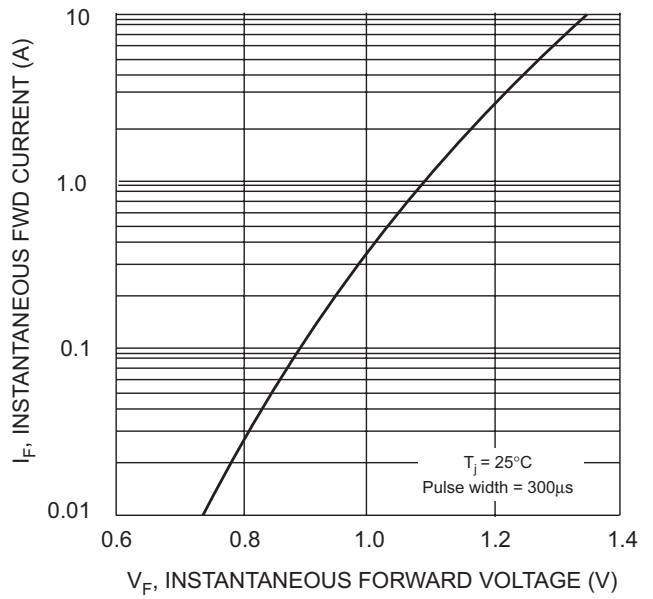


Fig. 2 Typical Forward Characteristics

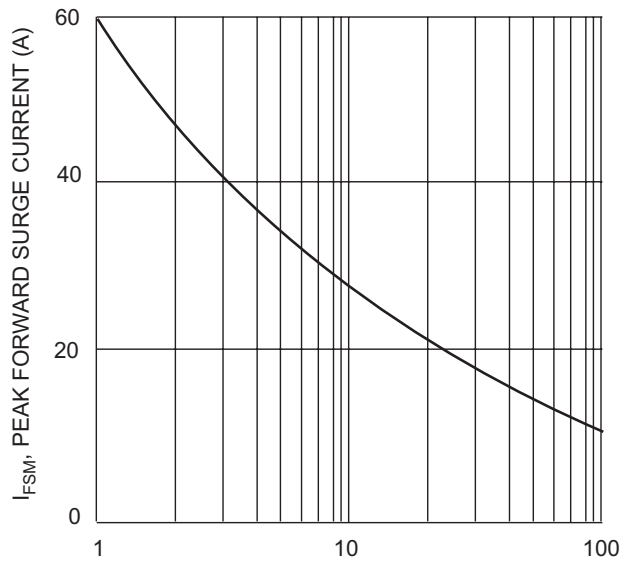


Fig. 3 Peak Forward Surge Current

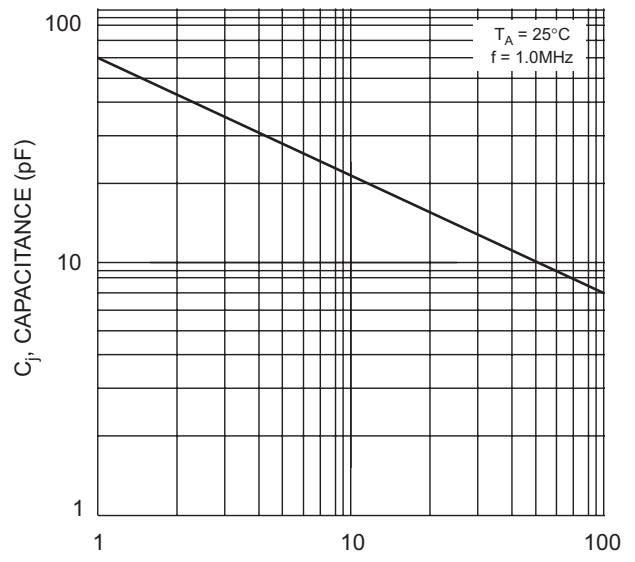
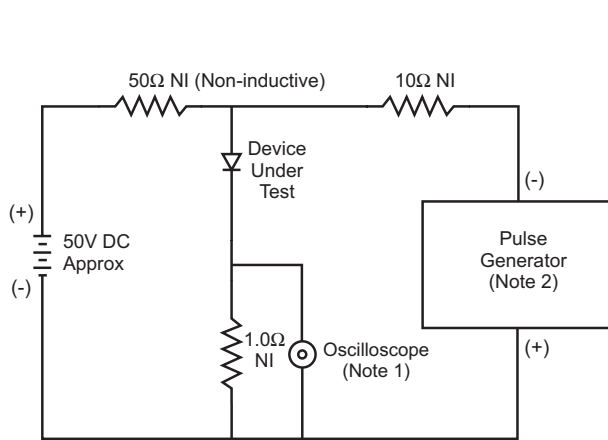
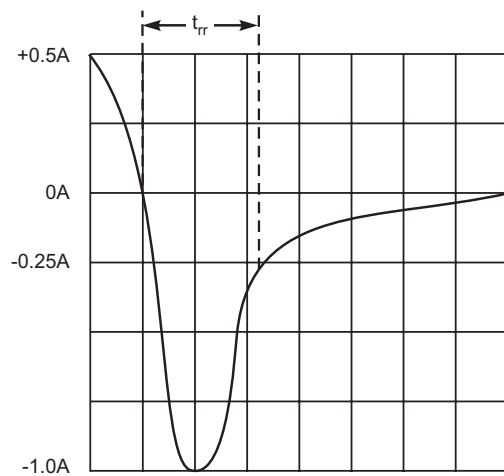


Fig. 4 Typical Junction Capacitance



- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
  2. Rise Time = 10ns max. Input Impedance = 50Ω.



Set time base for 5/10ns/cm

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

## ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SFR201-T3	DO-15	4000/Tape & Reel
<b>SFR201-TB</b>	DO-15	3000/Tape & Box
SFR201	DO-15	1000 Units/Box
SFR202-T3	DO-15	4000/Tape & Reel
<b>SFR202-TB</b>	DO-15	3000/Tape & Box
SFR202	DO-15	1000 Units/Box
SFR203-T3	DO-15	4000/Tape & Reel
<b>SFR203-TB</b>	DO-15	3000/Tape & Box
SFR203	DO-15	1000 Units/Box
SFR204-T3	DO-15	4000/Tape & Reel
<b>SFR204-TB</b>	DO-15	3000/Tape & Box
SFR204	DO-15	1000 Units/Box
SFR205-T3	DO-15	4000/Tape & Reel
<b>SFR205-TB</b>	DO-15	3000/Tape & Box
SFR205	DO-15	1000 Units/Box
SFR206-T3	DO-15	4000/Tape & Reel
<b>SFR206-TB</b>	DO-15	3000/Tape & Box
SFR206	DO-15	1000 Units/Box
SFR207-T3	DO-15	4000/Tape & Reel
<b>SFR207-TB</b>	DO-15	3000/Tape & Box
SFR207	DO-15	1000 Units/Box

Products listed in **bold** are WTE **Preferred** devices.

◆T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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*We power your everyday.*