

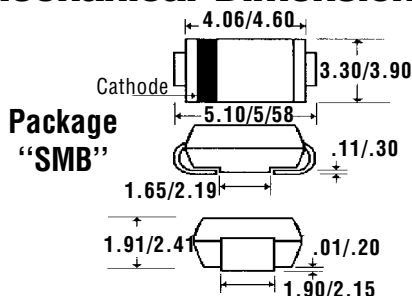
# 2.0 Amp SMD SUPER FAST RECTIFIERS

**UFS21 ... 26 Series**

## Description



## Mechanical Dimensions



## Features

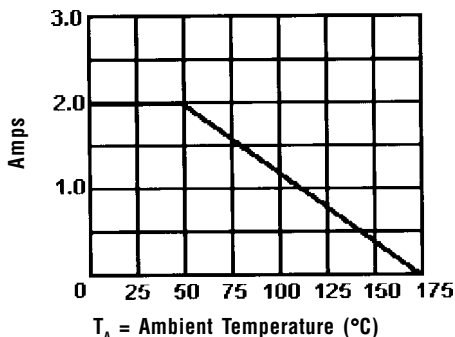
- HIGH SURGE CAPABILITY
- HIGH CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	UFS21 . . . 26 Series				Units
Maximum Ratings	UFS21	UFS22	UFS24	UFS26	
Peak Repetitive Reverse Voltage...V <sub>RRM</sub>	100	200	400	600	Volts
RMS Reverse Voltage...V <sub>R(rms)</sub>	70	140	280	420	Volts
DC Blocking Voltage...V <sub>DC</sub>	100	200	400	600	Volts
Average Forward Rectified Current...I <sub>F(av)</sub> T <sub>A</sub> = 55°C	2.0				Amps
Non-Repetitive Peak Forward Surge Current...I <sub>FSM</sub> @ Rated Current & Temp	50				Amps
Forward Voltage @ 2.0A...V <sub>F</sub>	.95				Volts
DC Reverse Current...I <sub>R</sub> @ Rated DC Blocking Voltage	T <sub>A</sub> = 25°C T <sub>A</sub> =150°C	2.0 50			μAmps μAmps
Typical Junction Capacitance...C <sub>J</sub> (Note 1)	70				pF
Typical Reverse Recovery Time...t <sub>RR</sub> (Note 2)	35				nS
Operating & Storage Temperature Range...T <sub>J</sub> , T <sub>STRG</sub>	-65 to 150				°C

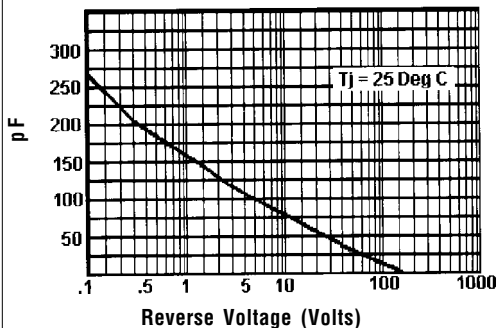
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**UFS21 ... 26 Series**

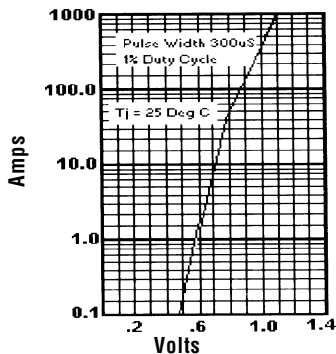
**Forward Current Derating Curve**



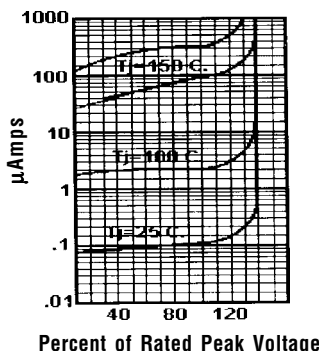
**Typical Junction Capacitance**



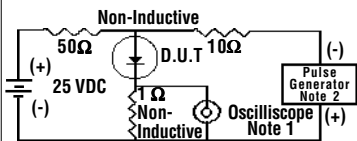
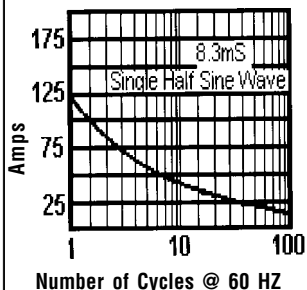
**Typical Instantaneous Forward Characteristics**



**Typical Reverse Characteristics**



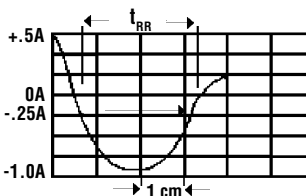
**Non-Repetitive Peak Forward Surge Current**



Notes:

1. Rise Time = 7 nS Max.  
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 nS Max.  
Source Impedance = 50 Ohms

**Reverse Recovery Characteristics**



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

**NOTES:** 1. Measured @ 1 MHZ and applied reverse voltage of 4.0V.  
2. Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A.