

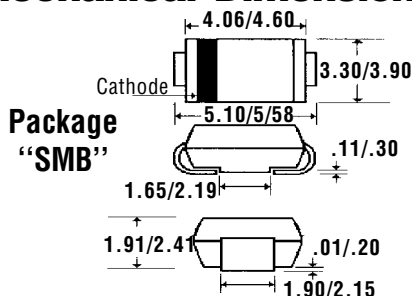
2.0 Amp SMD SUPER FAST RECTIFIERS

UFS21 ... 26 Series

Description



Mechanical Dimensions



Features

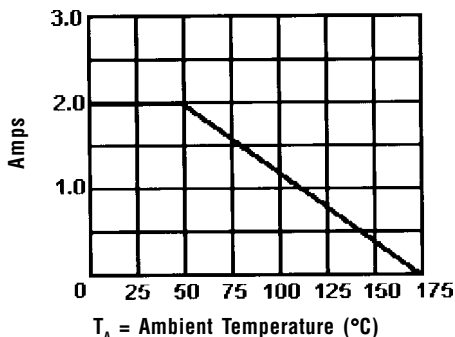
- HIGH SURGE CAPABILITY
- HIGH CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.		UFS21 . . . 26 Series				Units
Maximum Ratings		UFS21	UFS22	UFS24	UFS26	
Peak Repetitive Reverse Voltage... V_{RRM}		100	200	400	600	Volts
RMS Reverse Voltage... $V_{R(rms)}$		70	140	280	420	Volts
DC Blocking Voltage... V_{DC}		100	200	400	600	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$		2.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp		50				Amps
Forward Voltage @ 2.0A... V_F		.95				Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$ $T_A = 150^\circ\text{C}$	2.0 50				μAmps μAmps
Typical Junction Capacitance... C_j (Note 1)		70				pF
Typical Reverse Recovery Time... t_{RR} (Note 2)		35				nS
Operating & Storage Temperature Range... T_J, T_{STRG}		-65 to 150				$^\circ\text{C}$

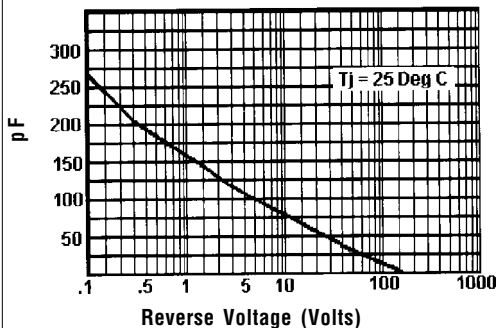
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UFS21 ... 26 Series

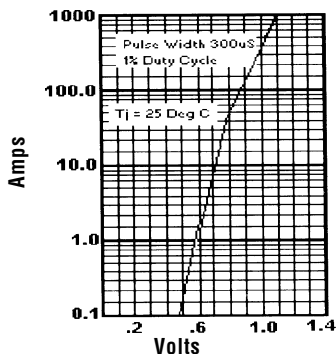
Forward Current Derating Curve



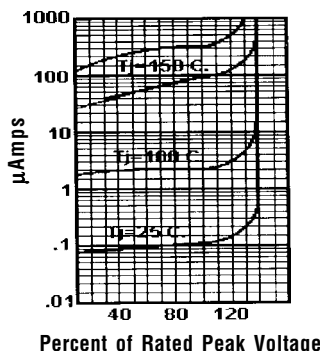
Typical Junction Capacitance



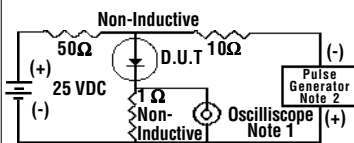
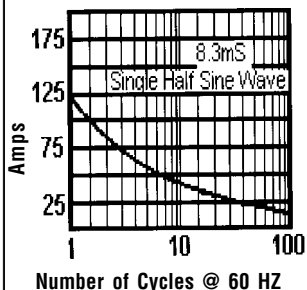
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



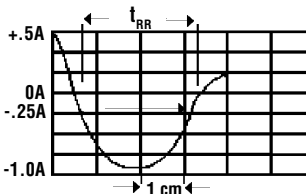
Non-Repetitive Peak Forward Surge Current



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_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.