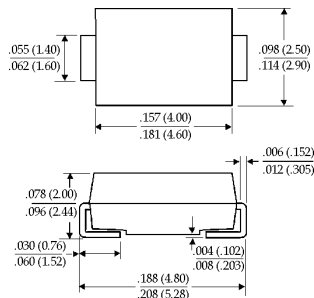


1.0 Amp SMD SUPER FAST RECTIFIERS

Description

Mechanical Dimensions

DO-214AC
(SMA)



Dimensions in inches and (millimeters)

Features

- HIGH SURGE CAPABILITY
- LOW FORWARD VOLTAGE DROP

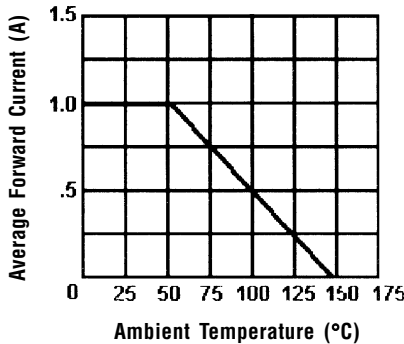
- HIGH CURRENT CAPABILITY
- MEETS UL SPECIFICATION 94V-0

UFS11 . . . 16 Series					Units
Maximum Ratings	UFS11	UFS12	UFS14	UFS16	
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°C	1.0				Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Current & Temp	30				Amps
Operating & Storage Temperature Range...T _J , T _{STRG}	-65 to 150				°C
Electrical Characteristics					
Maximum Forward Voltage @ 1.0A...V _F	.95	.95	1.3	1.5	Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	T _A = 25°C T _A =100°C		2.0 50	μAmps μAmps	
Typical Junction Capacitance...C _J (Note 2)			50	pF	
Maximum Reverse Recovery Time...t _{RR} (Note 1)	< 35		> < 50		ns

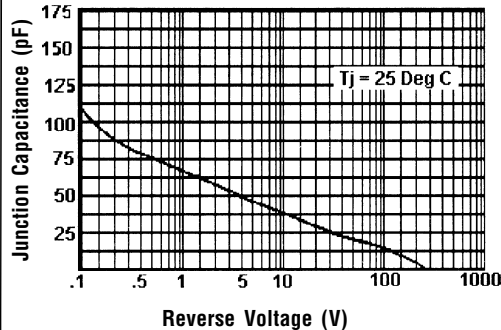
1.0 Amp SMD SUPER FAST RECTIFIERS

UFS11 ... 16 Series

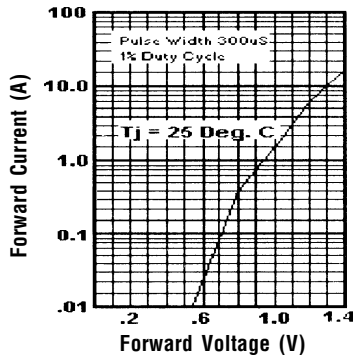
Forward Current Derating Curve



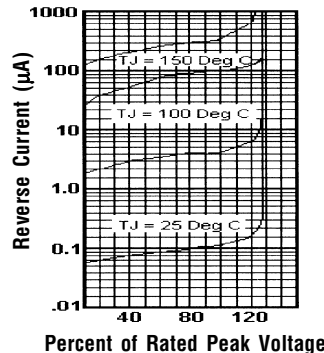
Typical Junction Capacitance



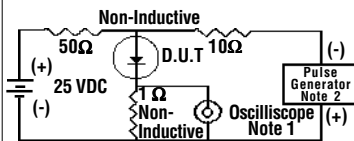
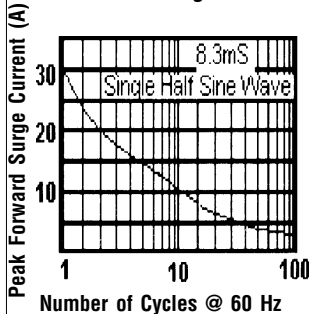
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



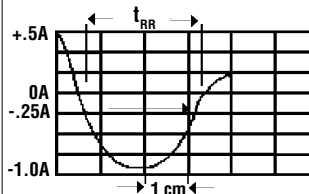
Non-Repetitive Peak Forward Surge Current



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. $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
2. Measured @ 1 MHz and applied reverse voltage of 4.0V.