



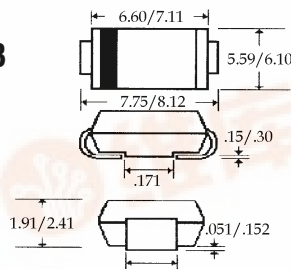
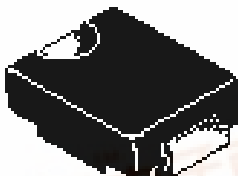
Data Sheet

3.0 Amp SMD SUPER FAST RECTIFIERS

Description

Mechanical Dimensions

DO-214AB
(SMC)

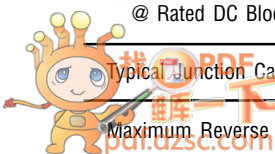


(Dimensions in mm)

Features

- LOW COST
- LOW LEAKAGE
- HIGH SURGE CAPABILITY
- MEETS UL SPECIFICATION 94V-0

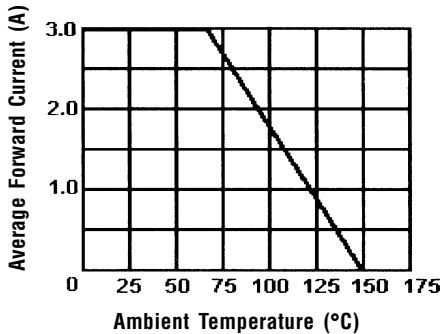
UFS30 . . . 36 Series						Units
Maximum Ratings	UFS30	UFS31	UFS32	UFS34	UFS36	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^{\circ}C$	3.0					Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	75					Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150					$^{\circ}C$
Electrical Characteristics						
Maximum Forward Voltage @ 3.0A... V_F	< 0.95 >		1.3	1.5		Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	5.0					μA mps
Typical Junction Capacitance... C_j (Note 1)	100					pF
Maximum Reverse Recovery Time... t_{RR} (Note 2)	< 35 >		< 50 >			ns



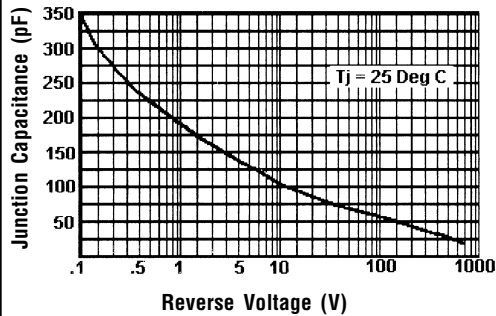
3.0 Amp SMD SUPER FAST PLASTIC RECTIFIERS

UFS30 36 Series

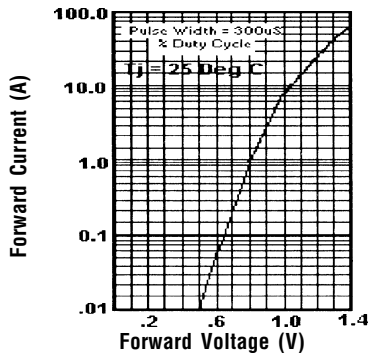
Forward Current Derating Curve



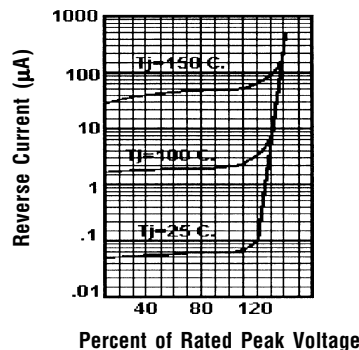
Typical Junction Capacitance



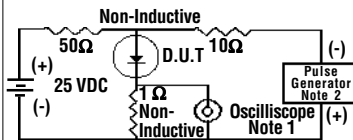
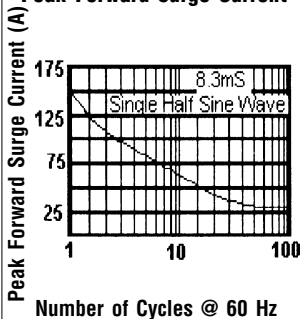
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



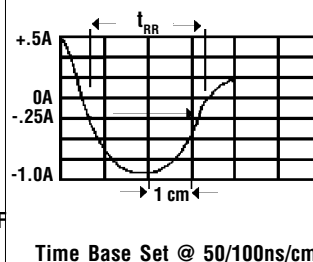
Non-Repetitive Peak Forward Surge Current



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