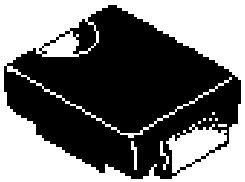
Semiconductor *Data Sheet*

3.0 Amp SMD SUPER FAST RECTIFIERS

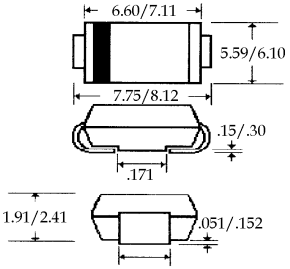
UFS30 . . . 36 Series

Description



Mechanical Dimensions

DO-214AB (SMC)



(Dimensions in mm)

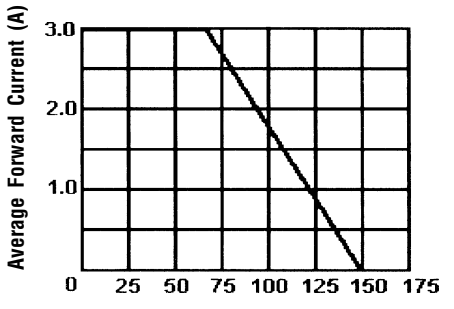
Features

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

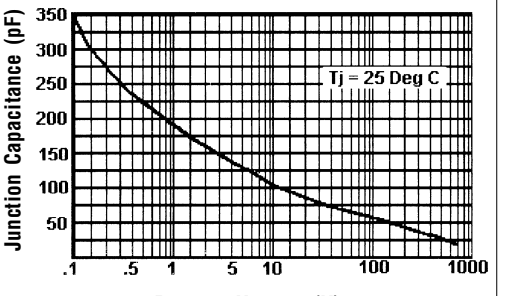
	UFS30 . . . 36 Series					**Units**
Maximum Ratings	**UFS30**	**UFS31**	**UFS32**	**UFS34**	**UFS36**	
Peak Repetitive Reverse Voltage...V_{RRM}	50	100	200	400	600	Volts
RMS Reverse Voltage...$V_{R(rms)}$	35	70	140	280	420	Volts
DC Blocking Voltage...V_{DC}	50	100	200	400	600	Volts
Average Forward Rectified Current...$I_{F(av)}$ T_A = 55°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					°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					µAmps
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

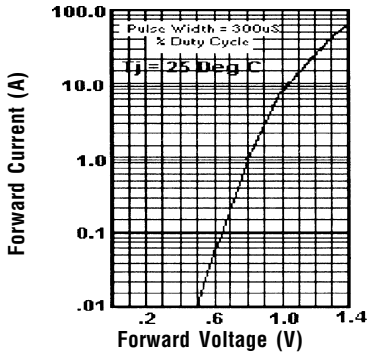
Forward Current Derating Curve



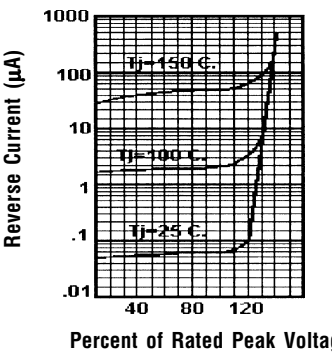
Typical Junction Capacitance



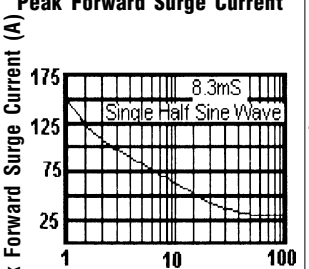
Typical Instantaneous Forward Characteristics

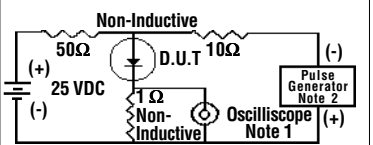


Typical Reverse Characteristics



Non-Repetitive Peak Forward Surge Current

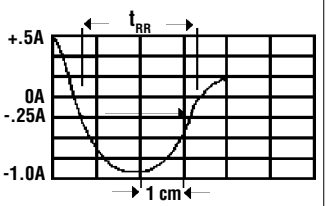




Notes:

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

Reverse Recovery Characteristics



Time Base Set @ 50/100ns/cm

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, Irr = 0.25A