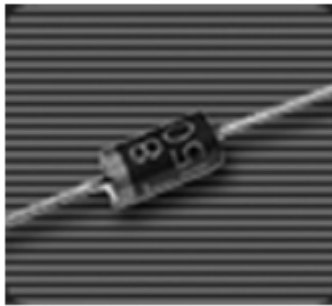


**Super Fast Surface Mount Rectifiers**
**DO-201AD**

**Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020  
LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874


**Primary characteristics**

$I_{F(AV)}$	3A
$V_{RRM}$	50 to 1000V
$I_{FSM}$	125A
$I_{RM}$	5 $\mu$ A
$V_{FM}$ at $I_F=3A$	0.95/1.3/1.7
$T_J$ max.	150 °C

**Applications**

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

**Mechanical data**

- DO-201AD
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque: 10cm $\cdot$ kg (8.8 inches $\cdot$ lbs) max.
- Recommended Torque: 5.7 cm $\cdot$ kg (5 inches $\cdot$ lbs)

**Maximum rating (Ta=25°C unless otherwise noted)**

Parameter	Sym	DO-201AD									Unit
		SF31	SF32	SF33	SF34	SF35	SF36	SF37	SF38	SF39	
Max. repetitive peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	600	800	1000	V
Max. RMS reverse voltage	$V_{RMS}$	35	70	105	140	210	280	420	560	700	V
Max. DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	600	800	1000	V
Max. average forward current	$I_{F(AV)}$	3									A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	125									A
Max. instantaneous forward voltage drop per diode	$V_{FM}$	0.95			1.3		1.7			V	
Max. instantaneous reverse current at rated DC blocking voltage	$I_{RM}$	5									$\mu$ A
		100									
Operating junction temperature	$T_J$	-55 ~ +150									°C
Storage temperature	$T_{STG}$	-55 ~ +150									°C
Maximum reverse recovery time (Note1)	$t_{rr}$	35									nS
Typical thermal resistance (Note2)	$R_{J-A}$	25									°C/W
	$R_{J-L}$	8									°C/W

**Notes:**

1 Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $IRR=0.25A$

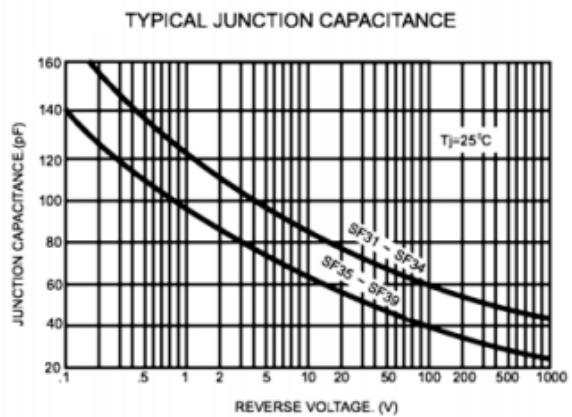
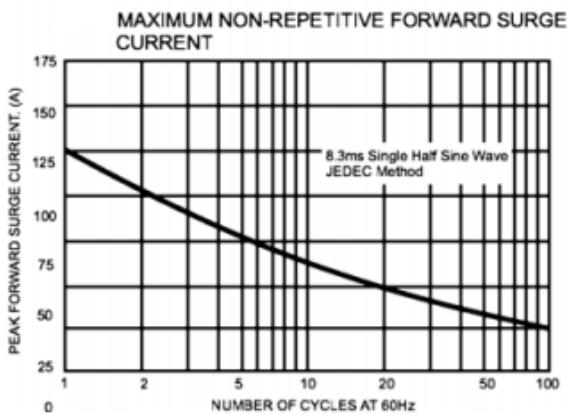
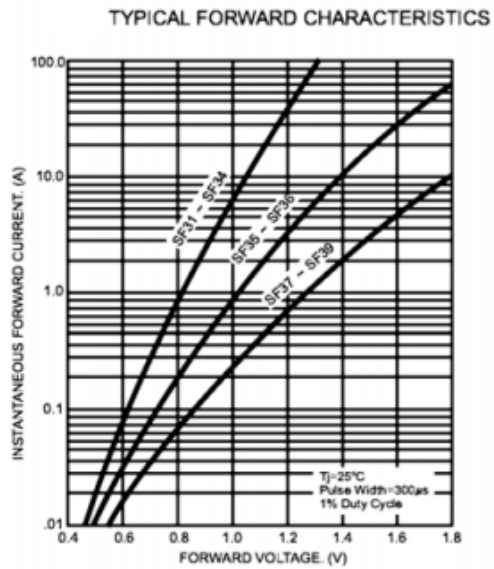
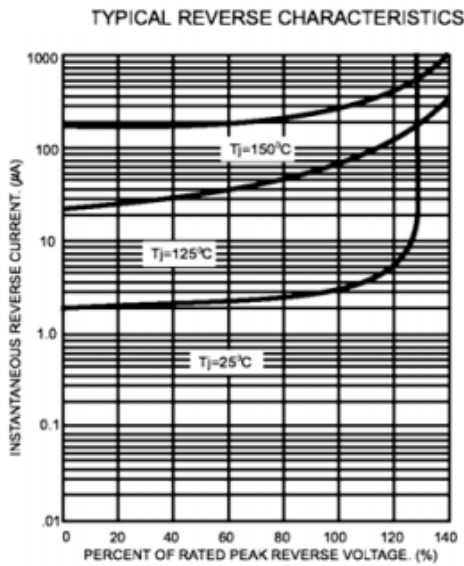


# SF31 thru SF39. Super Fast Surface Mount Rectifiers

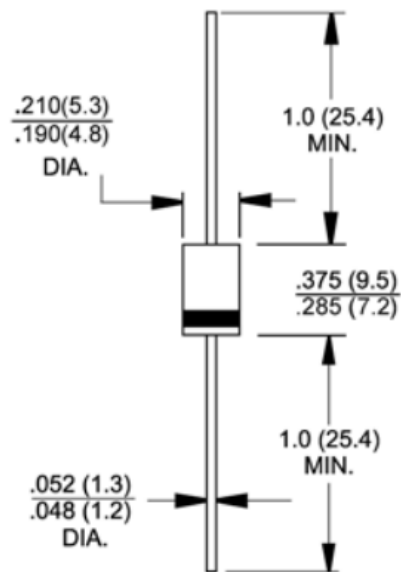
## Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SF31				

## Typical characteristics



**Package outline dimensions**



**Dimensions in inches and (millimeters)**

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