

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

$I_{F(AV)}$	6A
V_{RRM}	50 to 1000V
I_{FSM}	150A
I_{RM}	5 μ A
V_{FM} at $I_F=6A$	0.975/1.3/1.7
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
		SF61	SF62	SF63	SF64	SF65	SF66	SF67	SF68	SF69	
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	$I_{F(AV)}$	6									A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	150									A
Max. instantaneous forward voltage drop per diode	V_{FM}	0.975			1.3		1.7				V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	5									μ 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}	20									°C/W
	R_{J-L}	5									°C/W

Notes:

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



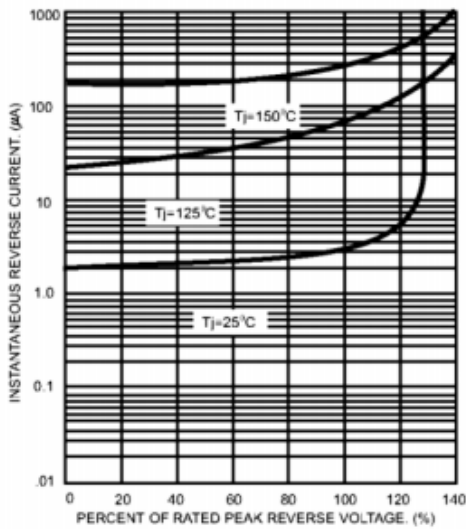
SF61 thru SF69. Super Fast Surface Mount Rectifiers

Ordering information (Example)

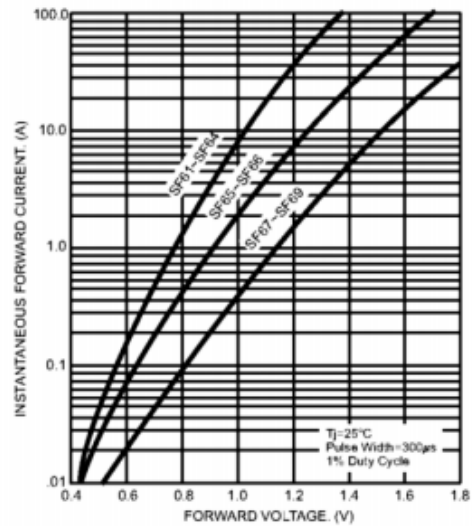
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SF61				

Typical characteristics

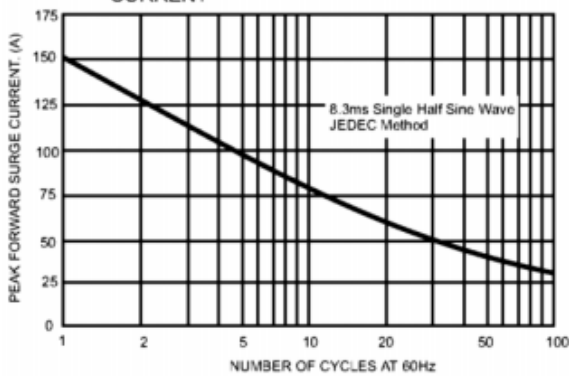
TYPICAL REVERSE CHARACTERISTICS



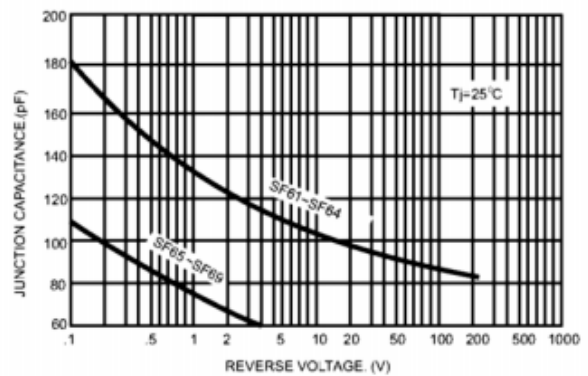
TYPICAL FORWARD CHARACTERISTICS



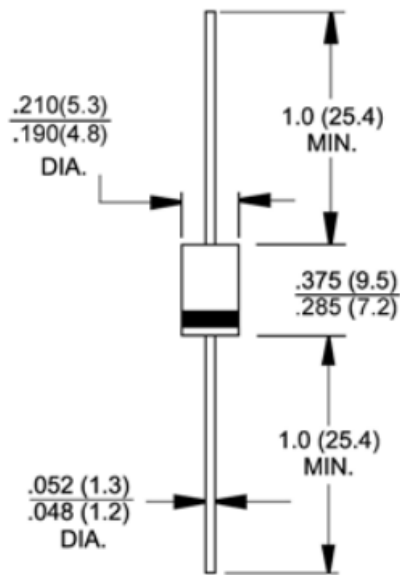
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



Package outline dimensions



Dimensions in inches and (millimeters)

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