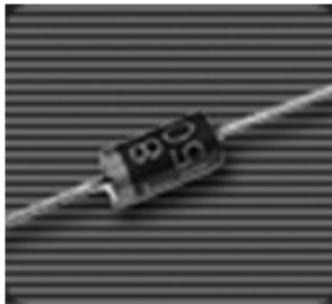


Super Fast Surface Mount Rectifiers
DO-201AD

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

$I_{F(AV)}$	4A
V_{RRM}	50 to 1000V
I_{FSM}	150A
I_{RM}	5 μ A
V_{FM} at $I_F=4A$	0.95/1.25/1.3/1.7
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·kg (8.8 inches·lbs) max.
- Recommended Torque: 5.7 cm·kg (5 inches·lbs)

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

Parameter	Sym	DO-201AD									Unit
		SF41	SF42	SF43	SF44	SF45	SF46	SF47	SF48	SF49	
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	$I_{F(AV)}$	4									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}	0.95			1.25		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			40		50				nS
Typical thermal resistance (Note2)	R_{J-A}	15									°C/W

Notes:

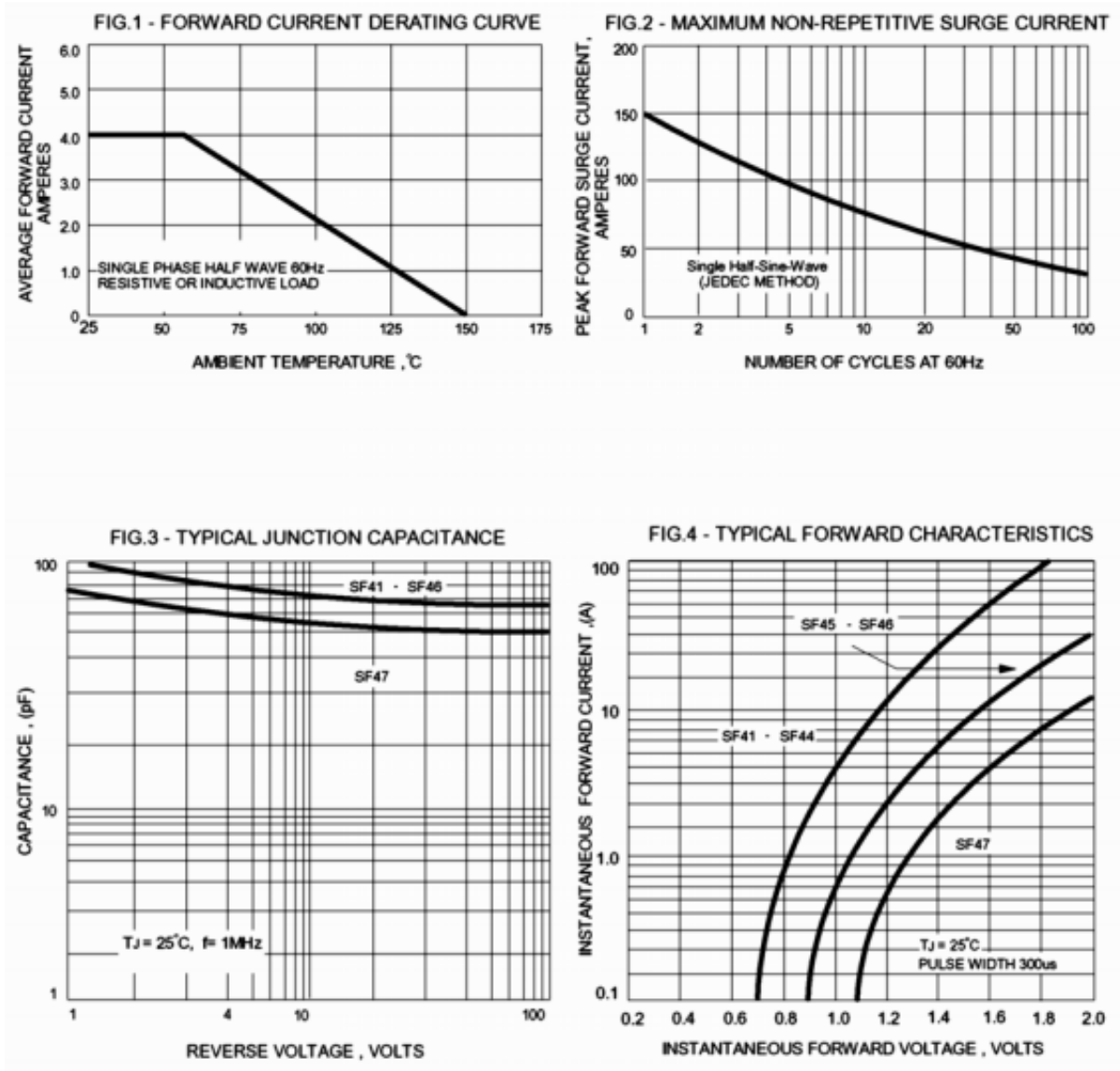
1 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$



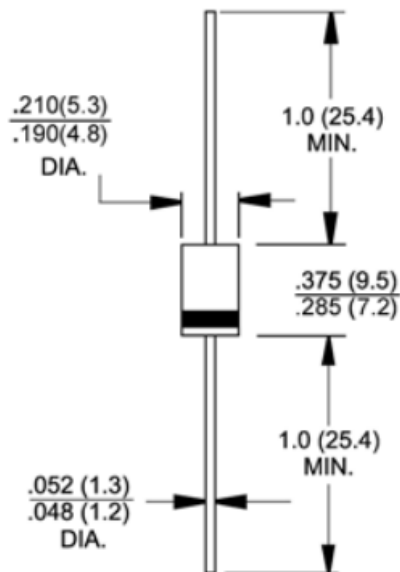
Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SF41				

Typical characteristics



Package outline dimensions



Dimensions in inches and (millimeters)

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