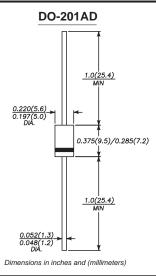
SF31 THRU SF38

SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 3.0 Amperes



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SF31	SF32	SF33	SF34	SF35	SF36	SF37	SF38	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current	I(AV) 3.0									
0.375"(9.5mm) lead length at Ta=55℃	I(AV)	1(04)					,.o			Α
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM	Ifsm 125							Α	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 3.0A	VF	0.95			1.3		1	.7	V	
Maximum DC reverse current Ta=25℃		10.0							μА	
at rated DC blocking voltage Ta=100℃	l _R	100.0								
Maximum reverse recovery time (NOTE 1)	trr	35							ns	
Typical junction capacitance (NOTE 2)	Cì	80.0 70.0					pF			
Typical thermal resistance (NOTE 3)	RθJA	30.0							°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

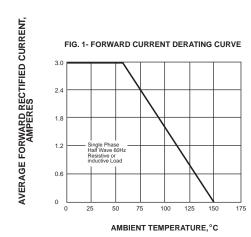
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

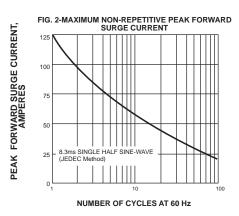
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

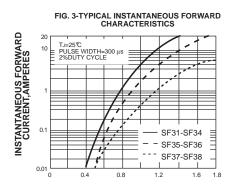
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

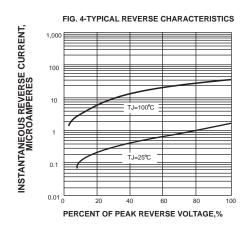


RATINGS AND CHARACTERISTIC CURVES SF31 THRU SF38

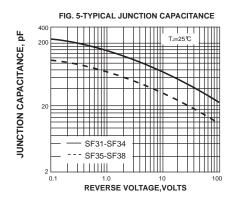


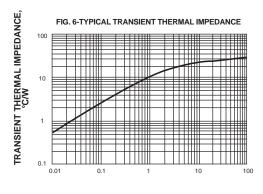












t,PULSE DURATION,sec.



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