

Switchmode Power Rectifiers

... Designed for use in switching power supplies, inverters and as free wheeling diodes. These state-of-the-art devices have the following features:

- * High Surge Capacity
- * Low Power Loss, High efficiency
- * Glass Passivated chip junctions
- * 150 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction
- * Low Forward Voltage, High Current Capability
- * Utrafast 35 & 50 Nanosecond Recovery Time
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O





MAXIMUM RATINGS

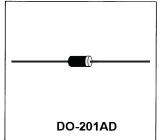
Characteristic	Symbol	SF					Unit	
		31	32	33	34	35	36	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	210	280	٧
Average Rectifier Forward Current	l _o	3.0					Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	I _{FSM}	75 50			0	Α		
Operating and Storage Junction Temperature Range	T_{j} , T_{stg}	- 65 to + 150				°C		

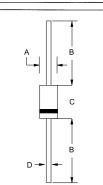
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Symbol SF					Unit	
		31	32	33	34	35	36	
Maximum Instantaneous Forward Voltage $(I_F=3.0 \text{ Amp}, T_C=25 ^{\circ}\text{C})$	V _F		0.	95		1.	30	٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 125 °C)	I _R	5.0 70				uA		
Reverse Recovery Time (I _F = 0.5 A, I _R =1.0 , I _{rr} =0.25 A)	T _{rr}	35		50		ns		
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		5	5		4	.5	pF

ULTRA FAST RECTIFIERS

3.0 AMPERES 50 -- 400 VOLTS





DIM	MILLMETERS					
	MIN	MAX				
Α	5.00	5.60				
В	25.40					
С	8.50	9.50				
D	1.20	1.30				

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band

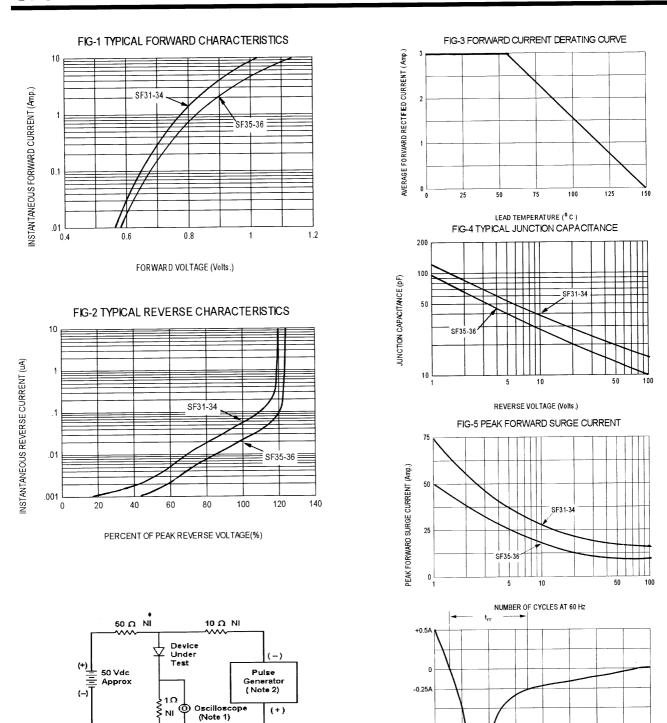


Fig-6 Reverse Recovery Time Characteristic and Test Circuit Diagram

Notes: 1. Rise Time = 7 ns max. Input Impedance =1 M Ω , 22 pF 2. Rise Time = 10 ns max. Input Impedance = 50 Ω

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SBAT54CWT1G SBM30-03-TR-E SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK32A-TP SK33B-TP SK35A-TP SK38B-LTP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3
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