

Micro Commercial Components



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SF31 THRU SF38

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Surge Capability
- Marking: Type Number
- Halogen free available upon request by adding suffix "-HF"

- Maximum Ratings
 Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

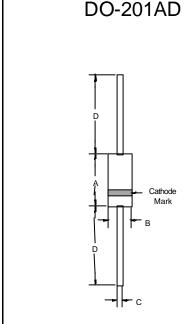
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF31	50V	35V	50V
SF32	100V	70V	100V
SF33	150V	105V	150V
SF34	200V	140V	200V
SF35	300V	210V	300V
SF36	400V	280V	400V
SF38	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0 A	$T_C = 55^{\circ}C$
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF31-SF34 SF35-SF36 SF38	V _F	.95V 1.3V 1.7V	I _{FM} = 3.0A; T _C = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _C = 25°C T _C = 100°C
Typical Junction Capacitance SF31-SF34 SF35-SF38	CJ	100pF 80pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time	T _{rr}	35ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

3.0 Amp Super Fast Rectifier 50 to 600 Volts



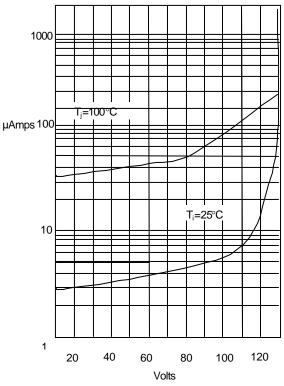
DIMENSIONS							
	INCH	יב	MM				
i			MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.287	.374	7.30	9.50			
В	.189	.208	4.80	5.30			
С	.048	.052	1.20	1.30			
D	1.000		25.40				

SF31 thru SF38



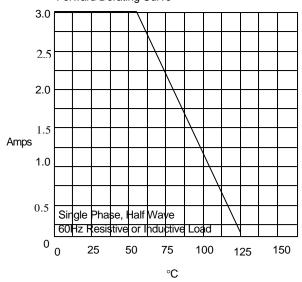
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Figure 1 Typical Reverse Characteristics



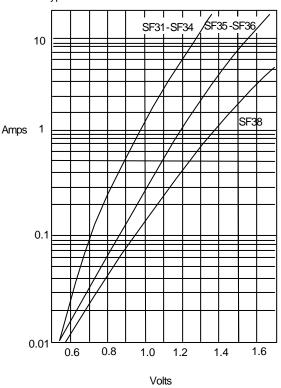
Instantaneous Reverse Current - μ Amperes versus Percent of Rated Peak Reverse Voltage - %

Figure 3
Forward Derating Curve



Average Forward Rectified Current Per Leg - Amperes versus Case Temperature - $^{\circ}\text{C}$

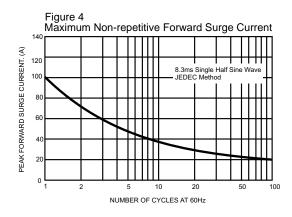
Figure 2 Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

SF31 thru SF38





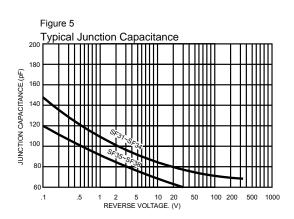
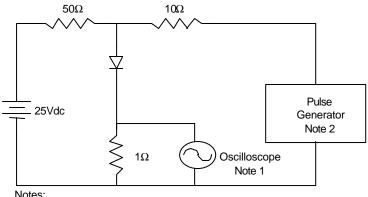
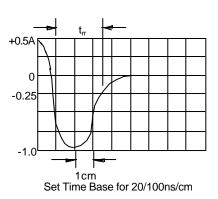


Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram





1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive

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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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