

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) Low forward voltage drop
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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
SF21	50V	35V	50V
SF22	100V	70V	100V
SF23	150V	105V	150V
SF24	200V	140V	200V
SF25	300V	210V	300V
SF26	400V	280V	400V
SF28	600V	420V	600V

Bectrical Characteristics @ 25°C Unless Otherwise Specified

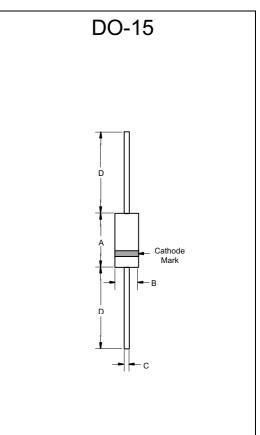
Average Forward Current	I _{F(AV)}	2.0A	T _C = 55°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF21-SF24 SF25-SF26 SF28	V_{F}	0.95V 1.30V 1.70V	I _{FM} = 2.0A; T _a = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0uA 100uA	T _C = 25°C T _C = 100°C
Typical Junction Capacitance SF21-SF24 SF25-SF28	CJ	60pF 30pF	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

^{*}Pulse Test: Pulse width 300 usec, Duty cycle 1%.

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SF21 THRU SF28

2.0 Amp Super Fast Rectifier 50 to 600 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.230	.300	5.80	7.60		
В	.104	.140	2.60	3.60		
С	.026	.034	.70	.90		
D	1.000		25.40			

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SF21 thru SF28



FIG.1- TYPICAL REVERSE CHARACTERISTICS

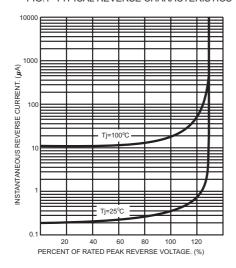


FIG.2- TYPICAL FORWARD CHARACTERISTICS

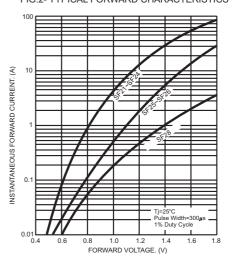
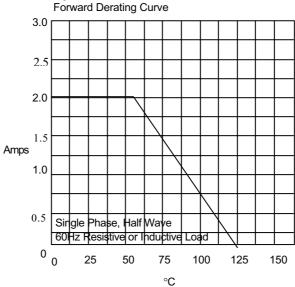


Figure 3

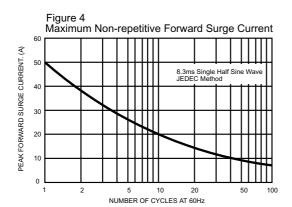


Average Forward Rectified Current Per Leg - Amperes versus Case Temperature - $^{\circ}\text{C}$

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SF21 thru SF28





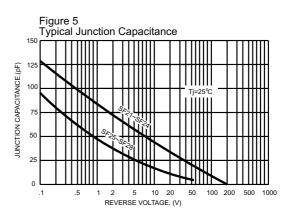
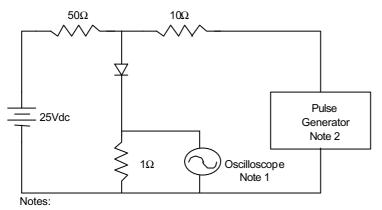
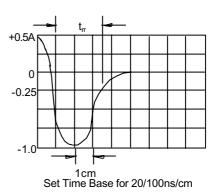


Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram





- 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: 4Kpcs/Reel
Part Number-BP	Bulk: 25Kpcs/Carton

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

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