

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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DF005S-G Thru. DF10S-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.0A

RoHS Device



Features

- -Rating to 1000V PRV.
- -Ideal for printed circuit board.
- -Low forward voltage drop.
- -High current capability.
- -The plastic material has UL flammability classification 94V-0
- -UL recognized file # E349301

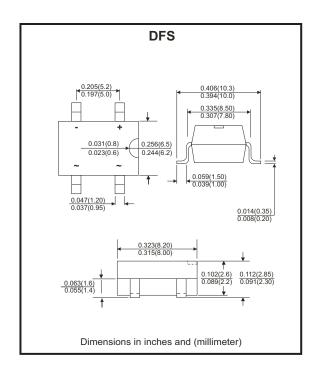


Mechanical Data

-Polarity: As marked on Body.

-Weight: 0.38 grams.

-Mounting position: Any.



Maximum ratings and electrical characteristics

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

Parameter		DF 005S-G	DF 01S-G	DF 02S-G	DF 04S-G	DF 06S-G	DF 08S-G	DF 10S-G	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40°C	I _(AV)		1.0				А		
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	Ігэм		30					А	
Maximum Forward Voltage at 1.0A DC	VF	1.1				V			
Maximum DC Reverse Current @Tj=25°C At Rate DC Blocking Voltage @Tj=125°C	IR	10 500			μA				
I ² T Rating for Fusing (t<8.3ms)	l ² t	3.735			A ² s				
Typical Junction Capacitance Per Element (Note 1)	C₁	25			pF				
Typical Thermal Resistance (Note 2)	Reja	40			°C/W				
Operating Temperature Range	Тл	-55 to +150			°C				
Storage Temperature Range	Тѕтс	-55 to +150			°C				

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.

Company reserves the right to improve product design, functions and reliability without notice.



Rating and Characteristics Curves (DF005S-G Thru. DF10S-G)

Fig.1 - Forward Current Derating Curve

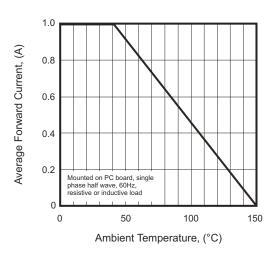


Fig.3 - Typical Junction Capacitance

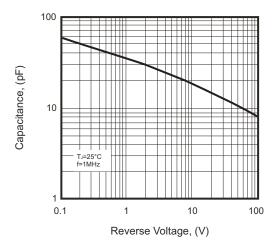


Fig.5 - Typical Reverse Characteristics

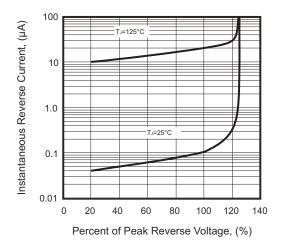


Fig.2 - Maximum Non-repetitive Surge Current

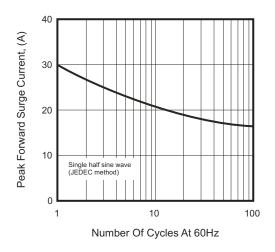
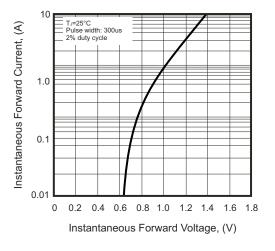


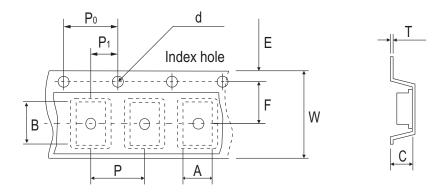
Fig.4 - Typical Forward Characteristics

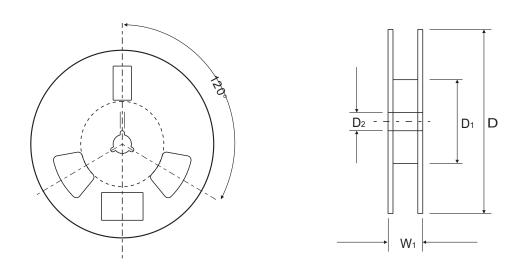


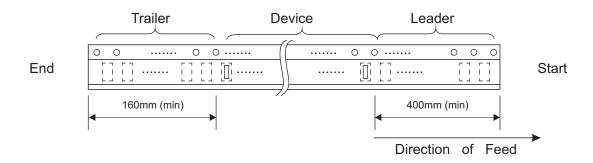
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Reel Taping Specification







	SYMBOL	Α	В	С	d	D	D1	D2
DFS	(mm)	8.64 ± 0.10	10.41 ± 0.10	3.81 ± 0.10	1.55 ± 0.05	330	50.0 MIN.	13.00 ± 0.20
	(inch)	0.340 ± 0.004	0.409 ± 0.004	0.150 ± 0.004	0.061 ± 0.002	13	1.969 MIN.	0.512 ± 0.008

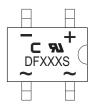
	SYMBOL	E	F	Р	P0	P1	T	W	W 1
DFS	(mm)	1.75 ± 0.10	7.50 ± 0.05	12.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.32	16.00 ± 0.30	16.00~18.40
	(inch)	0.069 ± 0.004	0.295 ± 0.002	0.472 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.013	0.630 ± 0.012	0.630~0.724

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Marking Code

Part Number	Marking code	Packaging
DF005SP-G	DF005S	Tube
DF01SP-G	DF01S	Tube
DF02SP-G	DF02S	Tube
DF04SP-G	DF04S	Tube
DF06SP-G	DF06S	Tube
DF08SP-G	DF08S	Tube
DF10SP-G	DF10S	Tube
DF005ST-G	DF005S	Reel
DF01ST-G	DF01S	Reel
DF02ST-G	DF02S	Reel
DF04ST-G	DF04S	Reel
DF06ST-G	DF06S	Reel
DF08ST-G	DF08S	Reel
DF10ST-G	DF10S	Reel



XX / XXX = Product type marking code □ = Comchip Logo

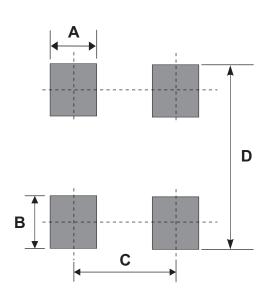
Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
TUBE PACK	Р
REEL PACK	Т

Suggested PAD Layout

SIZE	DFS			
SIZE	(mm)	(inch)		
Α	1.20 Min	0.047 Min		
В	1.52 Min	0.060 Min		
С	5.21 Ref	0.205 Ref		
D	10.26 Max	0.404 Max		



Standard Packaging

	TUBE PACK			
Case Type	TUBE (pcs)	BOX (pcs)		
DFS	50	5,000		

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
DFS	1,000	13			

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