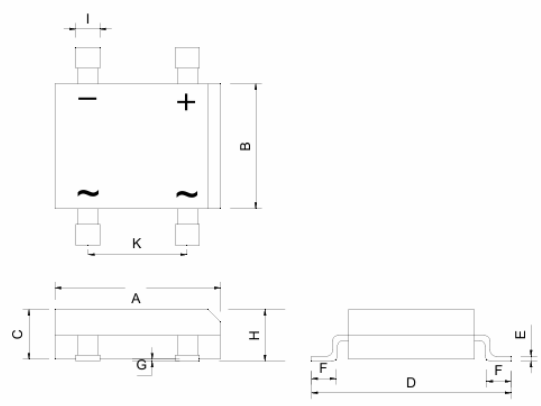


SMD Single Phase Bridge Rectifiers

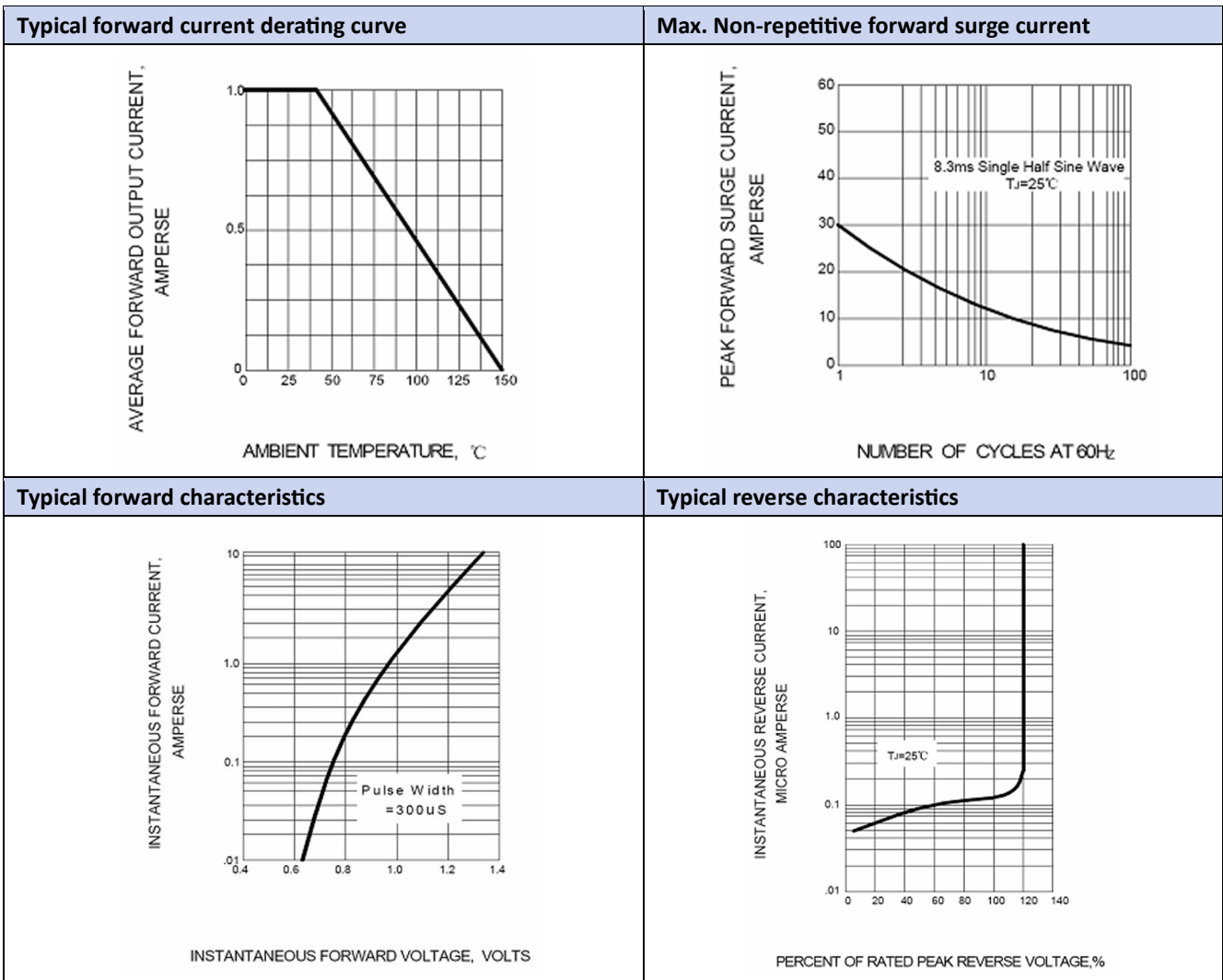
Primary characteristics		
Parameter	Value	Unit
Maximum repetitive peak reverse voltage	50 ~ 1000	V
Maximum average forward rectified current	1.0	A

Features

- **DFS** case for easy automatic insertion
- Pb-free and **RoHS** compliant
- Reliable low cost construction
- Glass passivated chip junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 30 amperes
- Ideal for printed circuit board application
- Terminals: Plated leads solderable per MIL-STD-202, Method 208

Case dimensions										
										
DFS										
Unit mm	A	B	C	D	E	F	G	H	I	K
MIN	8.2	6.1	2.35	9.8	0.15	0.9		2.50	1.0	4.8
MAX	8.6	6.5	2.65	10.2	0.35	1.5	0.2	2.80	1.4	5.2

Absolute maximum ratings and electrical characteristics (T _a = 25°C unless otherwise specified)									
Parameter	Symbol	Value							Unit
		DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	
Repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
RMS voltage	V _{RMS}	35	70	140	280	420	560	700	
DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	
Average forward rectified current at T _a =40°C	I _{F(AV)}	1.0							A
Peak forward surge current single half sine wave superimposed on rated load	I _{FSM}	30							
Rating for fusing (t<8.3ms)	I ² t	3.7							A ² s
Maximum instantaneous forward voltage at 1.0A	V _F	1.1							V
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	5.0							μA
	T _a =100°C	500							
Typical thermal resistance per element ¹⁾	R _{θJA}	66							°C/W
	R _{θJC}	30							
	R _{θJL}	28							
Operating junction and storage temperature range	T _j , T _{STG}	-55 ~ 150							°C



Ordering information			
Part number	Package	Shipping quantity	Dimensions
DF005S~DF10S	DFS	1 500 pcs/reel	---

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